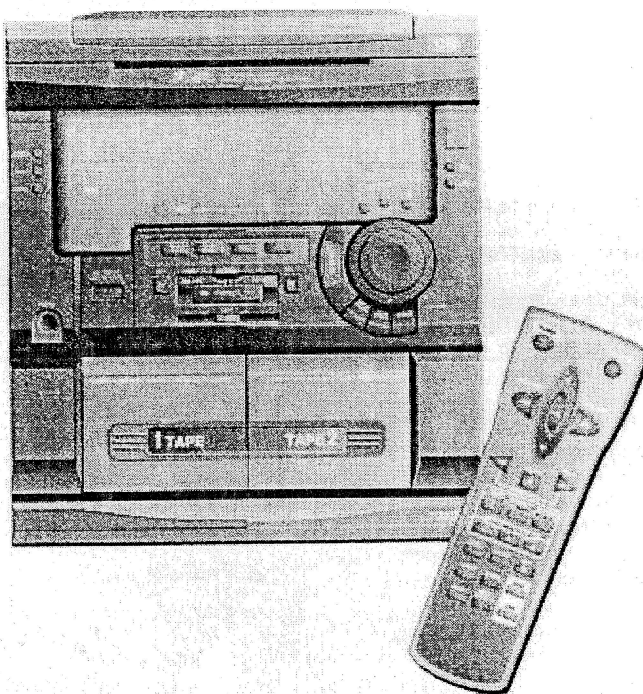


ETNr. 2231181

VTC - CD 4098



UTS-Nr.: 999 QUELLE
Best.Nr.: 0358663/01
Ger.Bez.: UNIVERSUM-MINI-ANLAGE

GKz: G GERAET
WGT: 650 MICRO-/MINI-ANLAGEN
KD-Sektor: R RUNDFUNK
BaumNr.: 00 KEIN DIAGNOSEBAUM VORHANDEN
Klassierung: STK STEREOKOMBINATION
IFW-FehlerGru.: 205 RDF., VERST., TB., PHONO, CD, CB
Type/Privileg/Universum.Nr VTC-CD4098
Beschreibung
VK-Preis: 499.00

Serviceart: 01 QUELLE-TKD
Garantie fuer Kunden 12 Monate
Sondervereinbarungen: 0 SIEHE SERVICEART

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SAFETY PRECAUTIONS

WARNING TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	CAUTION RISK OF ELECTRIC SHOCKS DO NOT OPEN	
CAUTION TO REDUCE THE RISK IF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		
	THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.	
	THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.	

CAUTION
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

LASER SAFETY
THIS UNIT EMPLOYS A LASER. ONLY QUALIFIED SERVICE PERSONNEL SHOULD REMOVE THE COVER OR ATTEMPT TO SERVICE THIS DEVICE DUE TO POSSIBLE EYE INJURY.

CAUTION USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION :TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION :POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Important Safety Instructions

- All the safety and operating instructions should be read before the appliance is operated.
 - The safety and operating instructions should be retained for future reference.
 - All warnings on the appliance and in the operating instructions should be adhered to.
 - All operating and use instructions should be followed.
1. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink,

laundry tub, in a wet basement, or near a swimming pool, and the like.

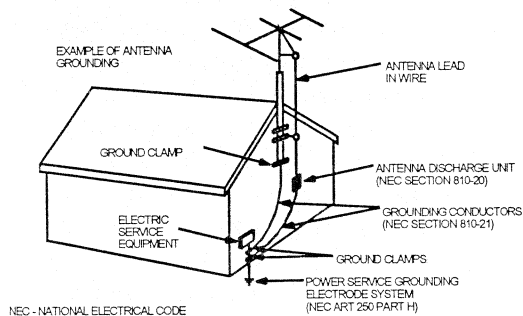
PORTABLE CART



Figure 2

2. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
3. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
4. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
5. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
6. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
7. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
8. Grounding or Polarization - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
9. Power - Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
10. Protective Attachment Plug - The appliance is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
11. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
12. Power Lines - An outdoor antenna should be located away from power lines.

13. Outdoor Antenna Grounding - If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure 1.



14. Non-use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

15. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

16. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

- a) The power-supply cord or the plug has been damaged; or
- b) Objects have fallen, or liquid has been spilled into the appliance; or
- c) The appliance has been exposed to rain; or
- d) The appliance does not appear to operate normally or exhibits a marked change in performance; or
- e) The appliance has been dropped, or the enclosure damaged.

17. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

ADJUSTMENTS

1. TUNER SECTION

TEST EQUIPMENT

1. Signal Generator with a frequency range of FM broadcast.
2. Oscilloscope with a side amplifier of approximately 100 KHz.
3. FM 75/50Ω dummy antenna.
4. VTVM

FM ALIGNMENT

1. Turn on the FM signal generator and the VTVM allowing 15 minutes warming-up period.
2. Connect the VTVM across the headphone jack or speaker terminal.
3. Set signal generator frequency as listed in ALIGNMENT CHART and maintain a sufficient output level to provide an indication on VTVM.

NOTE

1. Use a screwdriver with plastic or ceramic grip for all adjustments.
2. Standard test frequency 1 KHz and deviation 75 KHz for FM.

- FM RF, IF ALIGNMENT CHART -

Step	Item	Input Circuit Setup	Output Circuit Setup	Tuner Setting	Adjust Point	Adjustment
1	FM IF Adjustment	Connect stereo signal generator to FM ANT terminal (J001)	Connect DC voltmeter across R201	FM98MHz75KHz Dev. 26dBμ	L203	Adjust for DC 0V±0.1V
2	Auto Stop Sensitivity	Connect stereo signal generator to FM ANT terminal (J001)	Connect DC voltmeter across RV201	FM 98MHz 75KHz Dev. 26dBμ	RV201	Adjust for DC 1.17V±0.02V Confirm stereo indicator is lighted and L/R channel is separated.

Unless other specified set being switched FM mode, adjust generator's frequency to center of the FM band where no FM broadcast exists. Otherwise adjustment of FM usable sensitivity, frequency range for FM band are not needed, but confirm these data are satisfied with specification.

CAUTION: When realigning the FM receiving frequency the highest end of the frequency range should not be more than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulation in West Germany.

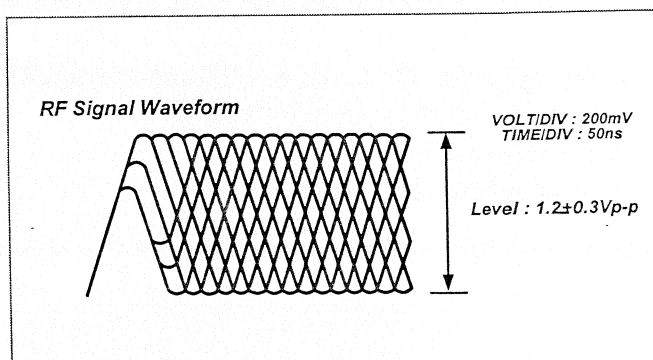
2. CD SECTION

Note: 1. Use the oscilloscope with more than 10MΩ impedance.

2. Clean the laser object lens using natural detergent and a soft applicator when the signal level is lower than the value as indicated in the following checks.

RF LEVEL CHECK

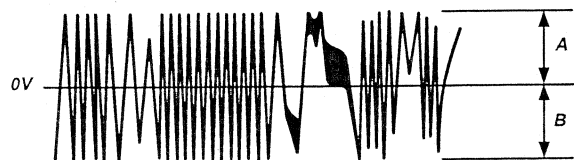
1. Connect oscilloscope to test point TP502 and IC502 Pin66 on CD PCB.
2. Press power switch on.
3. Put test disc(TCD-781) in and press play button then pause button.
4. Confirm that oscilloscope waveform is clear. Clear RF signal waveform means that the shape"#"can be clearly distinguished at the center of waveform.
5. Adjust RV501 to get a clear waveform and maximum amplitude.



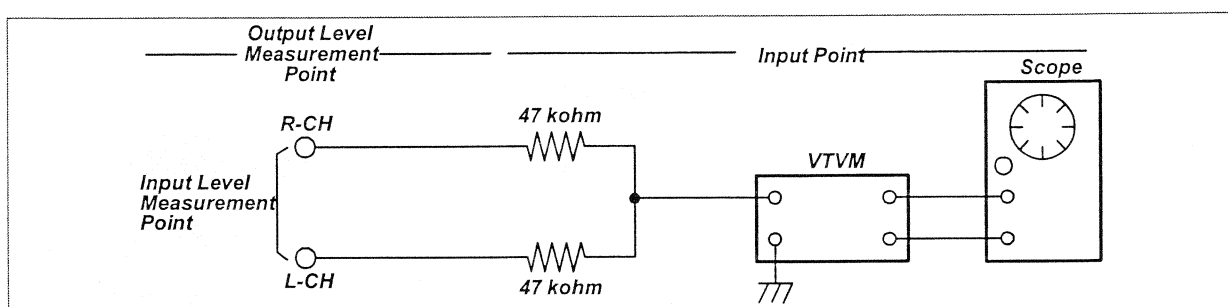
E-F BALANCE ADJUSTMENT

1. Connect oscilloscope to test point TP502 and TP503 on CD PCB.
2. Press power switch on.
3. Put test disc(TCD-781) in and press play button then pause button.
4. Press Fast Forward button and adjust RV502 for a symmetrical waveform on the oscilloscope in relation to 0V.

Traverse Waveform



* Design and specifications may be subject to change without notice.

3. TAPE SECTION

Test Tape be used

Tape	Contents	Use
MTT-111N	3 KHz	Tape Speed Adjustment
MTT-114N	10 KHz	Head Azimuth Adjustment
MTT-5511	Blank	Record Frequency Property

HEAD ADJUSTMENT (AZIMUTH)

1. 10KHz test tape(example: MTT-114N) must be used for this adjustment.
2. Connect to a VTVM or oscilloscope to the headphone jack or speaker terminal.
3. Press the play button.
4. Adjust the azimuth by using a screwdriver to maintain the max. L&R output voltage.
5. Adjust tape A(1), tape B(2) respectively, Please secure the azimuth position by using locking paint.

RECORDING BIAS OSCILLATOR FREQUENCY ADJUSTMENT

1. Connect the frequency counter to TP603, GND.
2. Press the REC button.
3. Adjust L603 to obtain 80 KHz $\pm$ 100Hz

ADJUSTMENTS

TAPE ALIGNMENT CHART								
Step	Item		Reference Value	Test Tape	Adjust Point	Test Point	Note	FIG.
1	Tape Speed Adjustment	Normal	3,000~3,010Hz	MTT-111N	RV601	Line Out L/R Channel	Be sure Wow & Flutter is within 0.35% Adjust Tape Speed of end position after adjustment at tape start position	FIG.1
		High	5,820~6,180Hz	MTT-111N	-----	Shorted TP601, TP602	Confirm High speed after normal speed adjustment	FIG.1
2	Azimuth Adjustment		Maximum Level Phase:Within90°	MTT-114N	Head Screw	Line Out L/R Channel		FIG.2,3,4
3	Recording Bias Oscillator Frequency Adjustment		80 KHz±0.5	MTT-5511	L603	TP603,GND	Adjust with frequency counter connected.	FIG.1

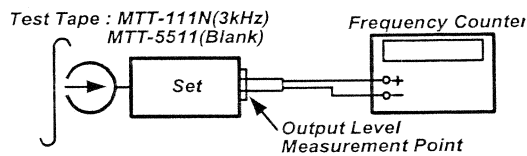


FIG. 1 : Tape Speed & Record Bias Oscillator Frequency Adjust Circuit

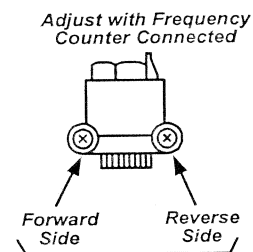


FIG. 2 : Tape Azimuth Adjust Location (Record/Playback Head)

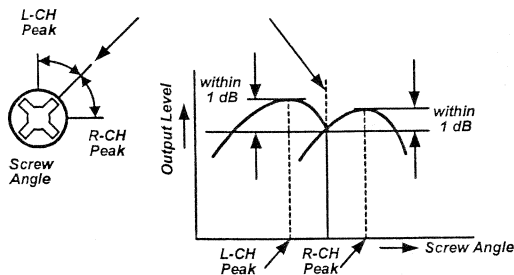


FIG. 3 : Tape Azimuth Adjust Head Screw & Waveform

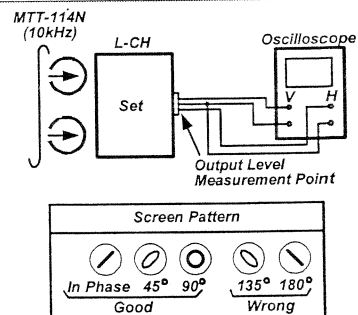
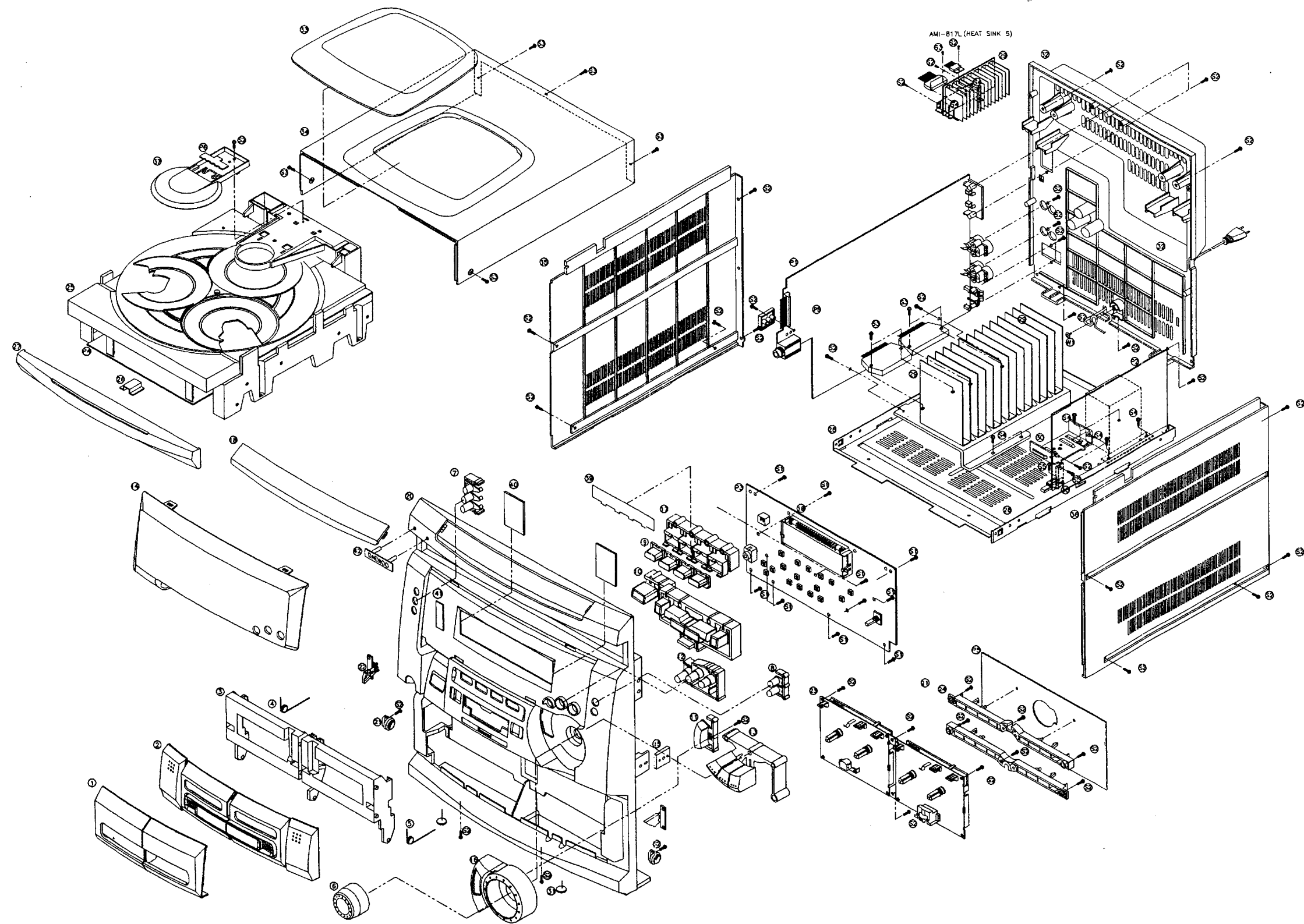


FIG. 4 : Tape Azimuth Adjust Circuit & Waveform

EXPLODED VIEW AND MECHANICAL PARTS LIST

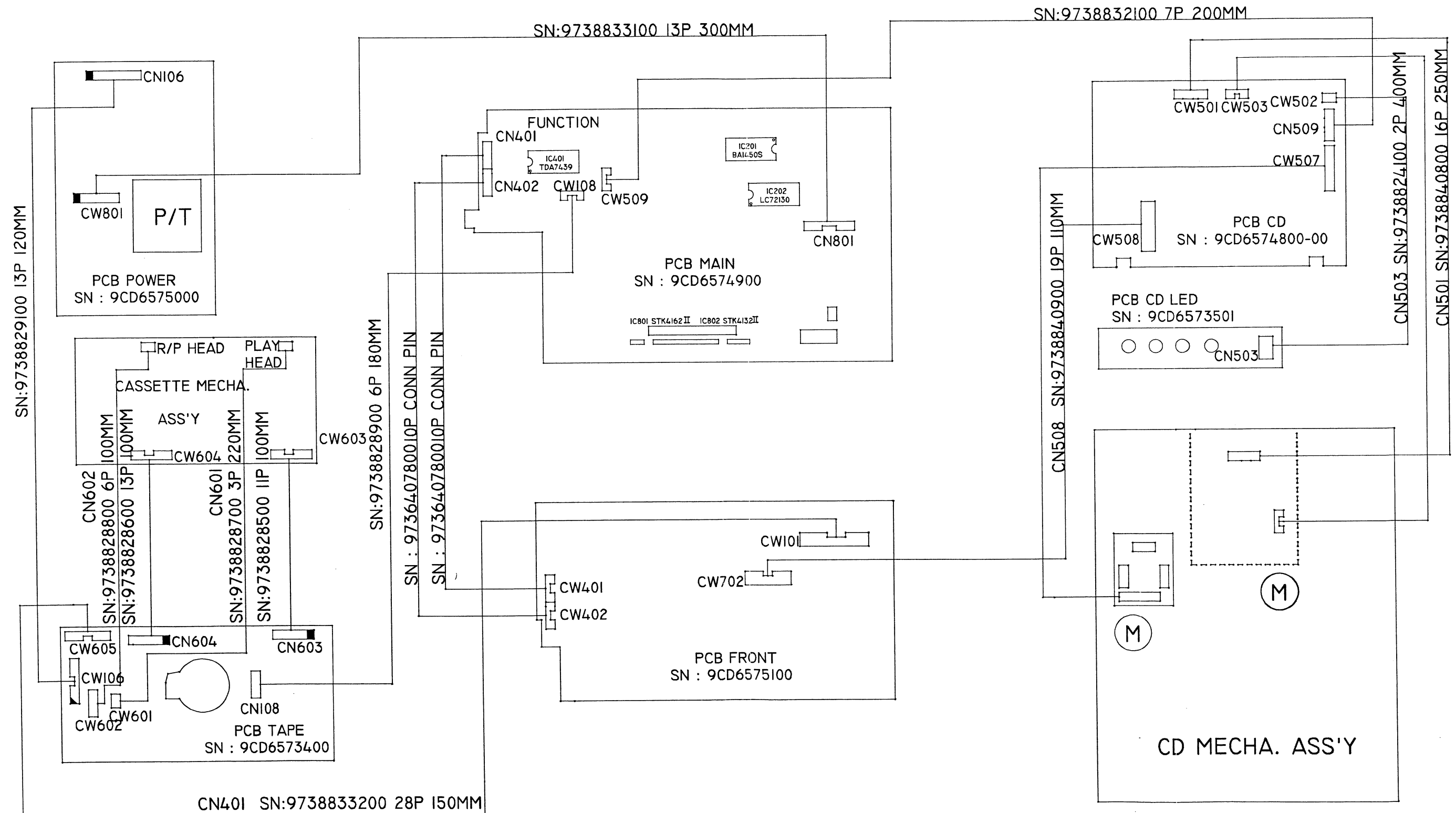


EXPLODED VIEW AND MECHANICAL PARTS LIST

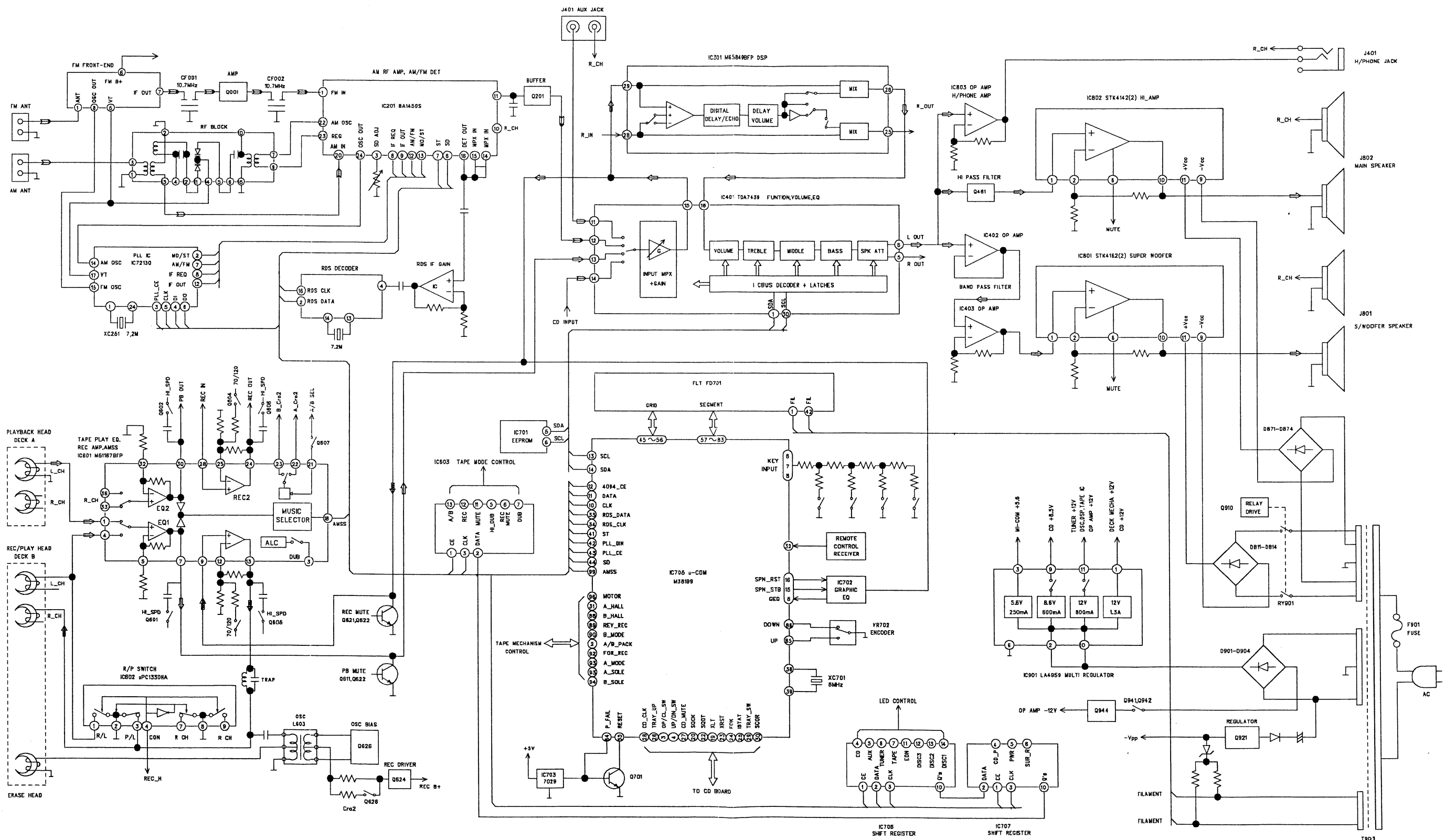
No.	Parts Name	Parts Code	Description	Qty
1	WINDOW DOOR A/B	9CD1613900	ACRYL	1
	WINDOW DOOR A/B	9CD1614000	ACRYL	1
2	COVER DOOR A/B	9CD0410200	MIPS	1
	COVER DOOR A/B	9CD0410300	MIPS	1
3	DOOR FRAME A/B	9CD1809400	ABS	1
	DOOR FRAME A/B	9CD1809500	ABS	1
4	SPRING DOOR EJECT L	9CD30078L0	SUS D0.8	1
5	SPRING DOOR EJECT R	9CD30078R0	SUS D0.8	1
6	KNOB VOLUME	9CD1334400	ABS	1
7	KNOB EQ	9CD1334600	ABS	1
8	KNOB OPEN	9CD1335900	ABS	1
9	KNOB FUNCTION	9CD1334300	ACRYL CLEAR	4
10	KNOB MODE	9CD1334900	ABS	1
11	KNOB SUPER	9CD1334500	ABS	1
12	KNOB DISC	9CD1334200	ACRYL MILKY	1
13	KNOB REC	9CD1334700	ABS	1
14	WINDOW FLT	9CD1613700	ACRYL	1
15	BRKT.SIDE	9CD2412900	ABS 1.5GR	2
16	DECO VR	9CD1002400	MIPS	1
17	COVER LED	9CD0409700	MIPS WHITE	1
18	WINDOW DECO	9CD1613800	ACRYL SMOG	1
19	GUIDE FLT	9CD2505600	AMI-917L	1
20	PANEL FRONT	9CD0305900	MIPS	1
21	DAMPER ASSY	9CDM029800	ABS/ACETAL	2
22	LOCKER ASSY	9CDM029900	ABS/ACETAL	2
23	CASS.DECK(A/S)	9CD6007000	S/S ADR-2138MW	1
	CASS.DECK(A/S)	9CD6006800	S/S ADR-2136SW	-
24	HOLDER PCB DECK	9CD2303600	MIPS 16.5GR(AMI-917L)	2
25	CD DECK MECHA.	9CD6006900	DCC-01B	1
26	HEAT SINK	9CD4402800	BSP 0.5T	1
27	DOOR CD	9CD1809300	MIPS	1
28	CHASSIS BOTTOM	9CD0607100	AMI-917L	1
29	HEAT SINK 1	9CD4404500	AL	-
	HEAT SINK 3	9CD4404600	AL	-
	HEAT SINK 5	9CD4404700	AL	-
	HEAT SINK 7	9CD4404300	AL	1
30	HEAT SINK P	9CD4404200	AL T2.0	1

No.	Parts Name	Parts Code	Description	Qty
31	CUSHION FOOT	9CD4207700	URETHAN FOAM RUBBER	2
32	COVER BACK	9CD0409801	MIPS	-
	COVER BACK	9CD0409803	MIPS	-
	COVER BACK	9CD0409804	MIPS	1
33	WINDOW TOP	9CD1612900	ACRYL SMOG	1
34	COVER TOP	9CD0409600	MIPS	-
	COVER TOP	9CD0409100	MIPS	-
35	COVER SIDE L	9CD0409200	MIPS	1
36	COVER SIDE R	9CD0409300	MIPS	1
37	DECO TOP	9CD1002200	ACRYL CLEAR	1
38	BRKT.PCB A	9CD2413100	SECC 1.0T	1
39	FILTER LED	9CD4700700	PC 0.15T	1
40	PLATE FLT	9CD0909800	PVC SHEET T1.0	-
41	PLATE FUNCTION	9CD0910000	PVC SHEET T0.5	1
42	BADGE DAEWOO	9CD1500900	ABS HOT STAMPING	1
43	BRKT.HEAT TR.	9CD2413900	SUS T0.4	-
44	HOLDER AC CORD	9CD2303300	ABS 4.0GR	1
P1	PCB MAIN	9CD6574900	AMI-917L	1
P2	PCB POWER	9CD6575000	AMI-917L	1
P3	PCB FRONT	9CD6575100	AMI-917L	1
P4	PCB CD	9CD6574800	AMI-917L	1
P5	PCB DECK	9CD6573400	AMI-917L	1
P6	PCB LED	9CD6574801	AMI-917L	1
S1	SCREW TAPTTITE	7173261011	TT2 BIN 2.6X10 MFZN	18
S2	SCREW TAPTTITE	7173301012	TT2 BIN 3.0X10 BK	38
S3	SCREW TAPTTITE	7173301212	TT2 BIN 3.0X12 BK	9
S4	SCREW TAPTTITE	7173400611	TT2 BIN 4X6 MFZN	6
S5	SCREW TAPTTITE	7173300611	TT2 BIN 3X6 MFZN	2
W1	WASHER SCREW	9CD3102400	TT2 BIN 3X10 + D14	1

WIRING DIAGRAM

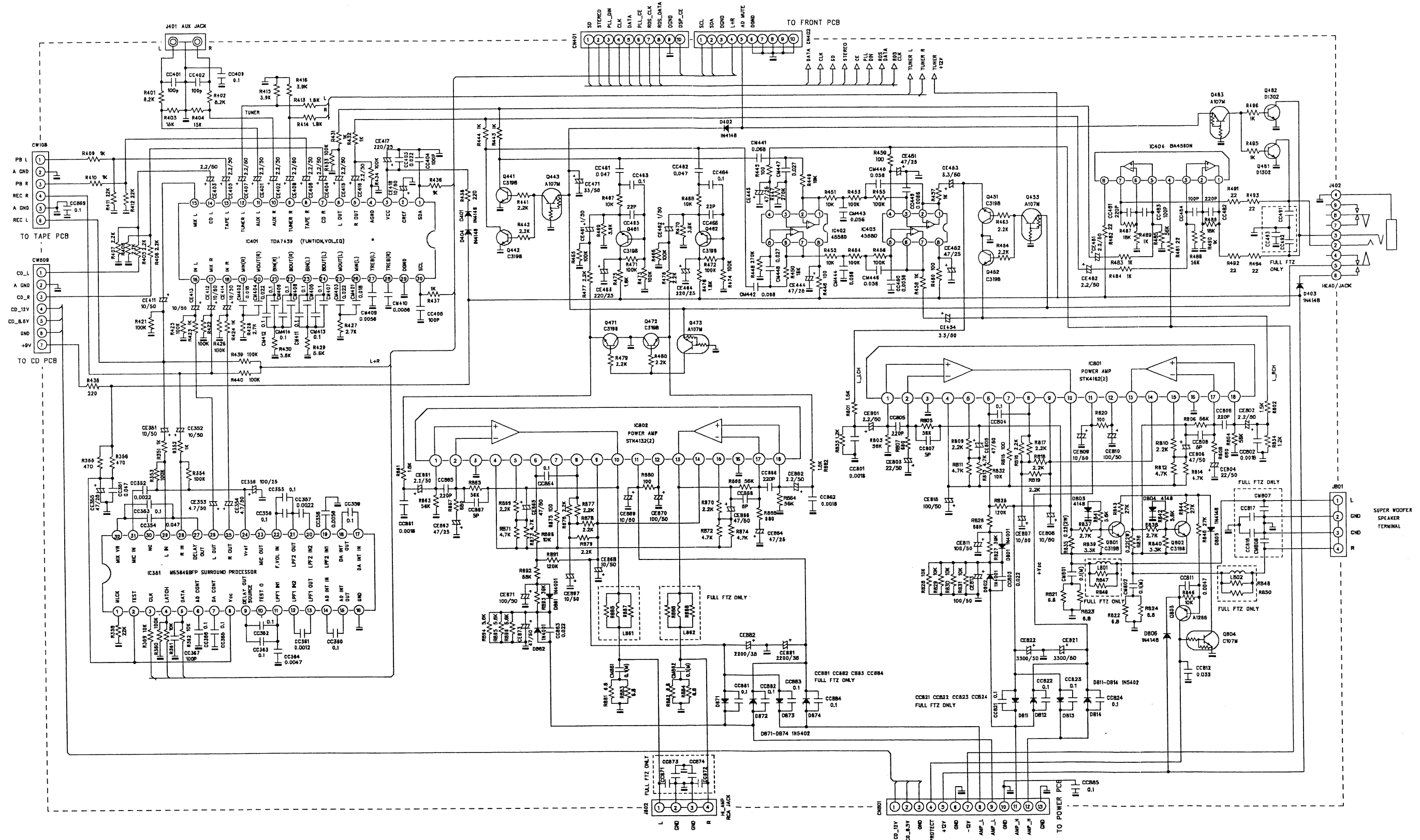


BLOCK DIAGRAM

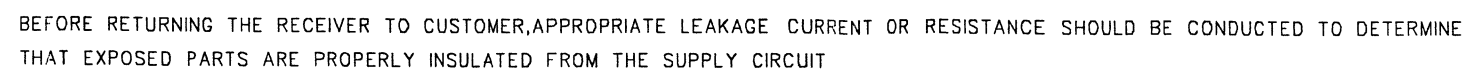


SCHEMATIC DIAGRAM

◆ AMP



◆ **POWER**



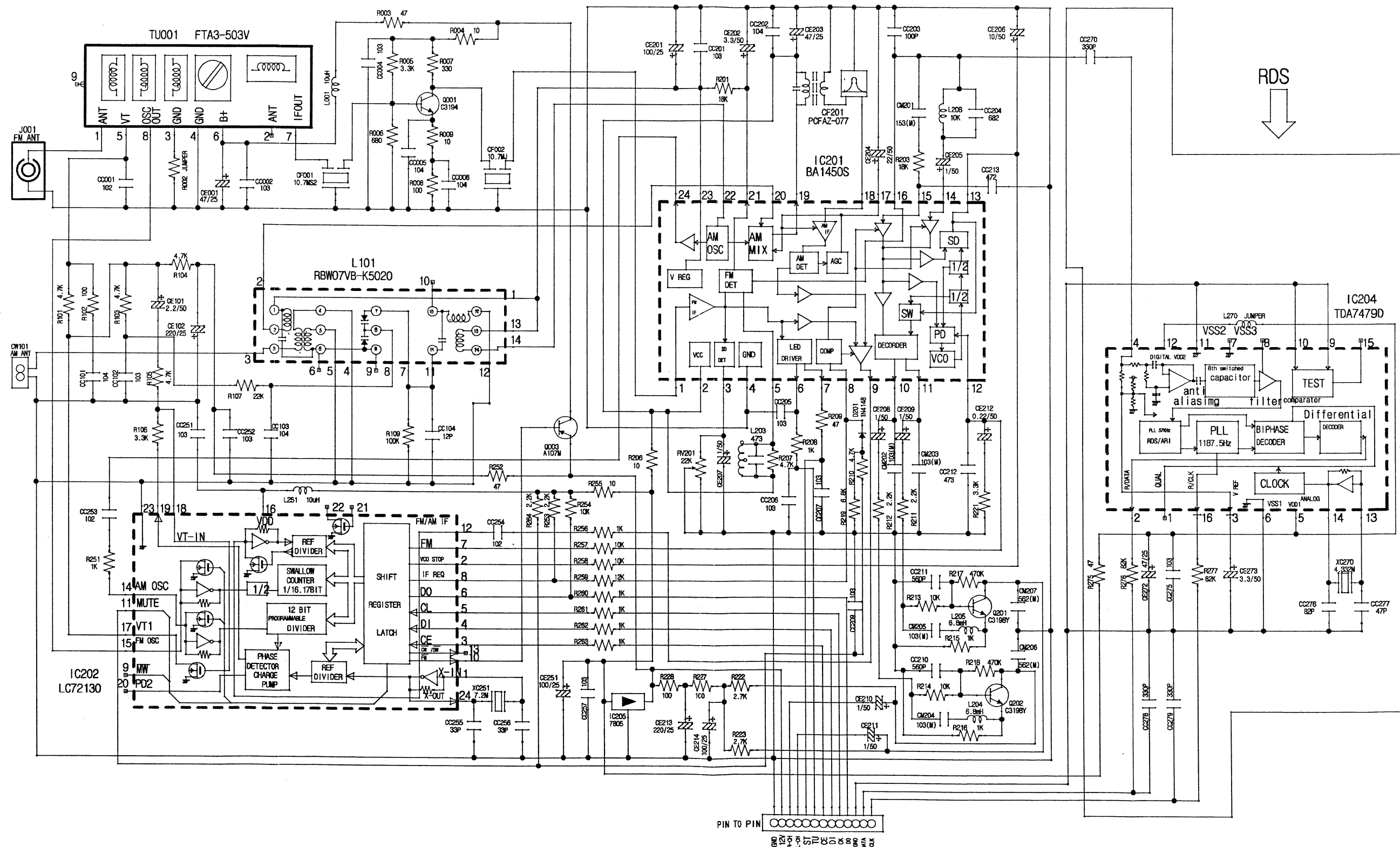
NOTE : THE COMPONENTS INDENTIFIED BY MARK  ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH SAME TYPE PARTS SPECIFIED.

WARNING : FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS (REFER TO PARTS LIST).

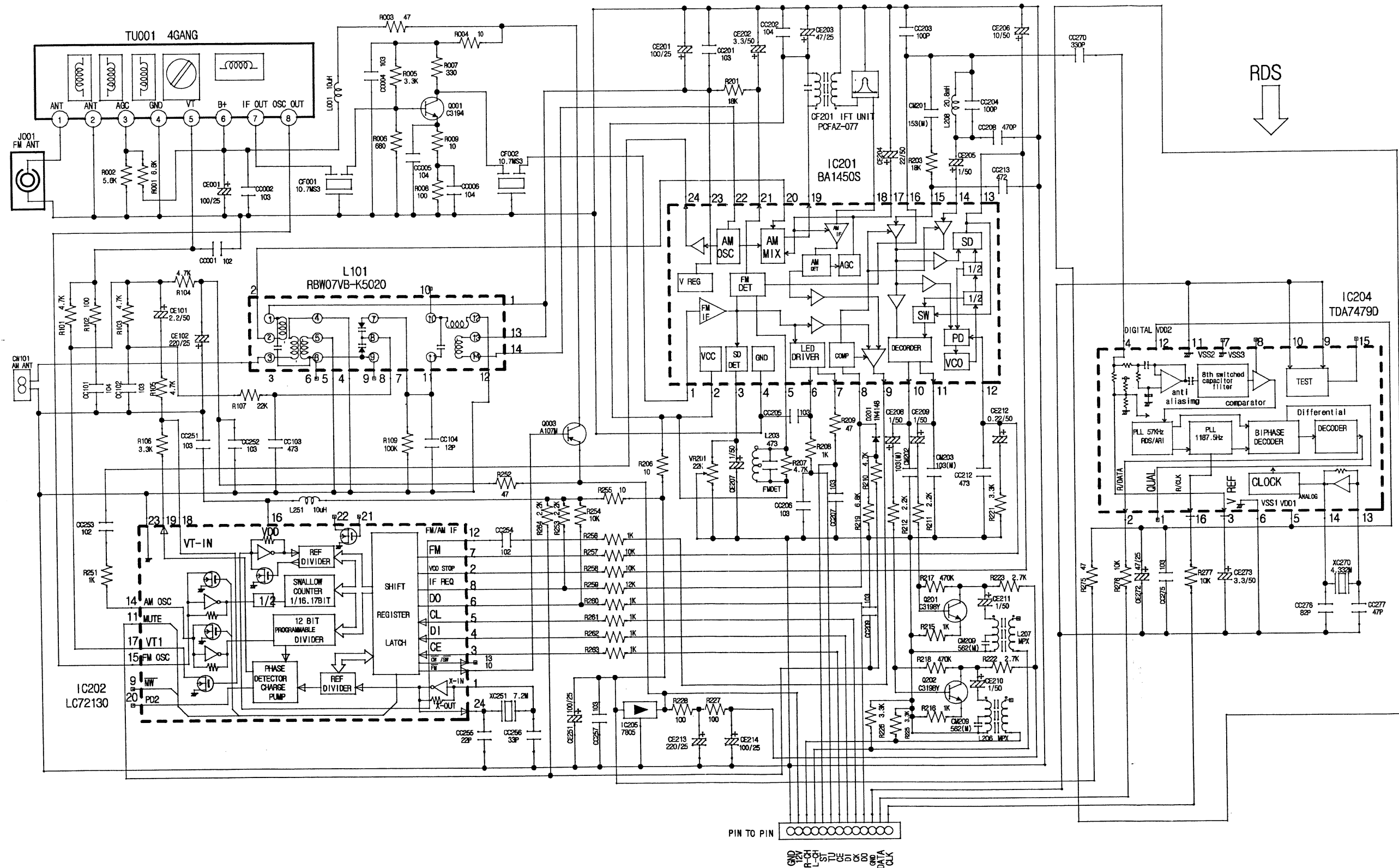


SCHEMATIC DIAGRAM

◆ TUNER

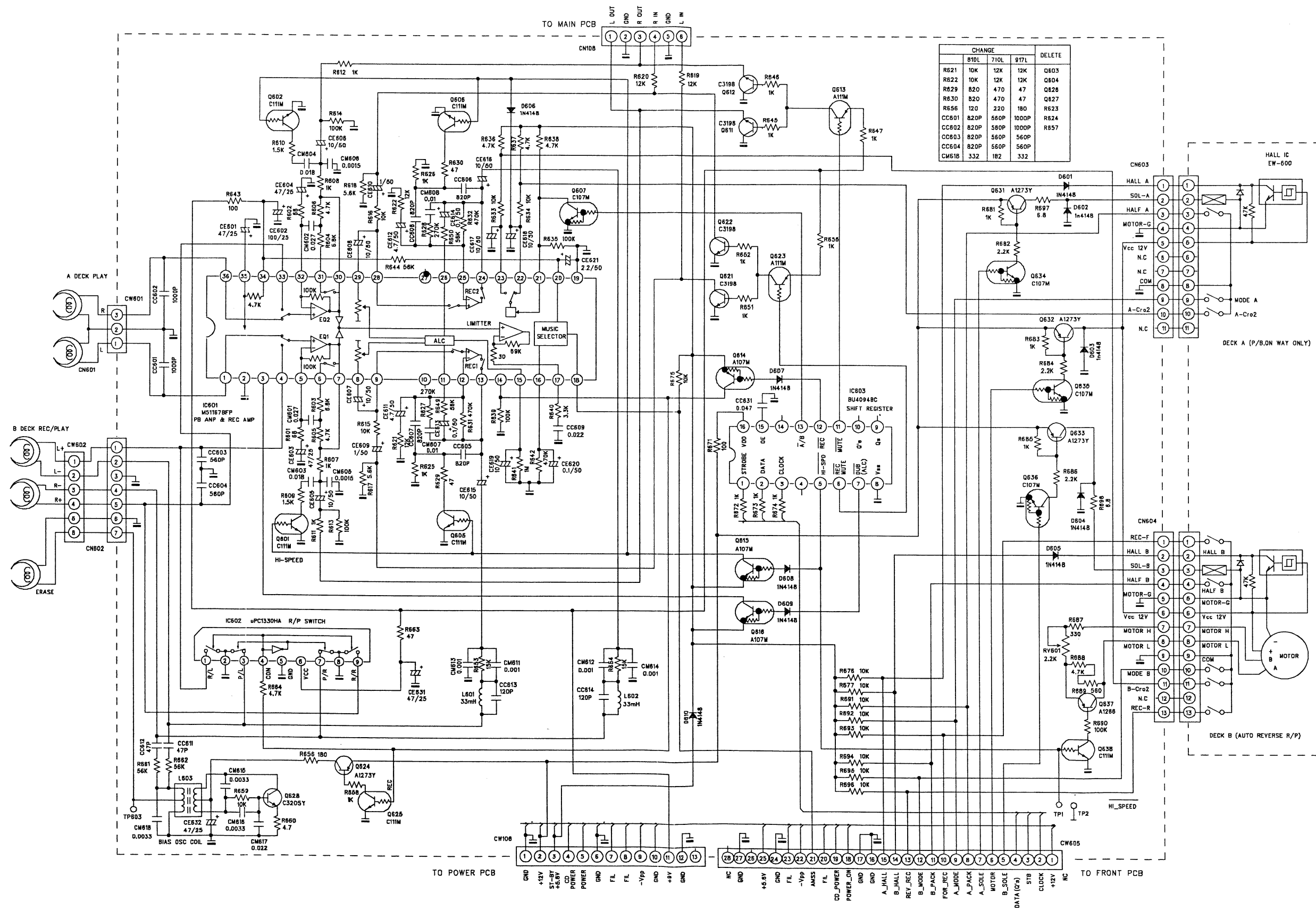


◆ TUNER-FTZ (OPTIONAL)

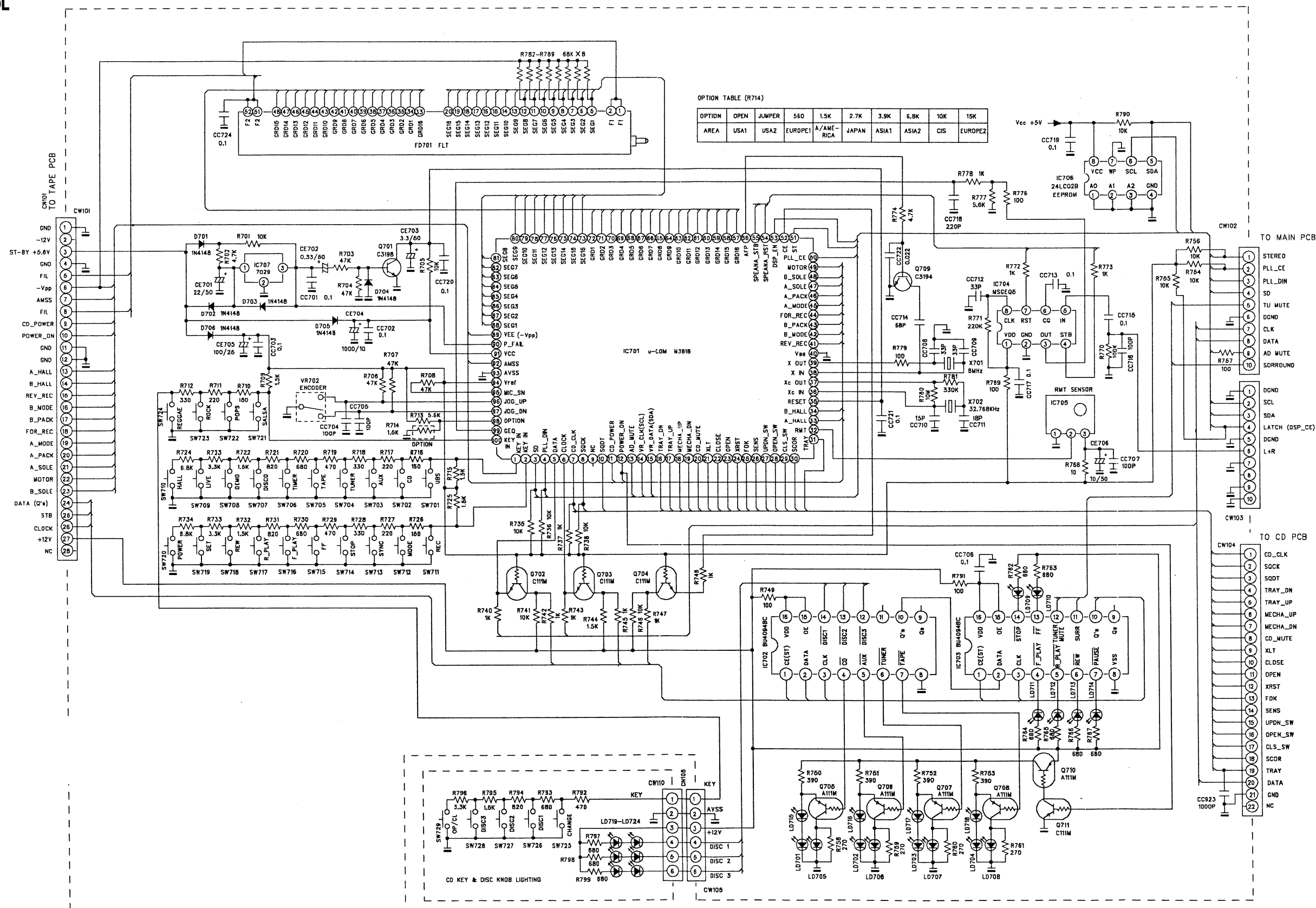


SCHEMATIC DIAGRAM

◆ TAPE

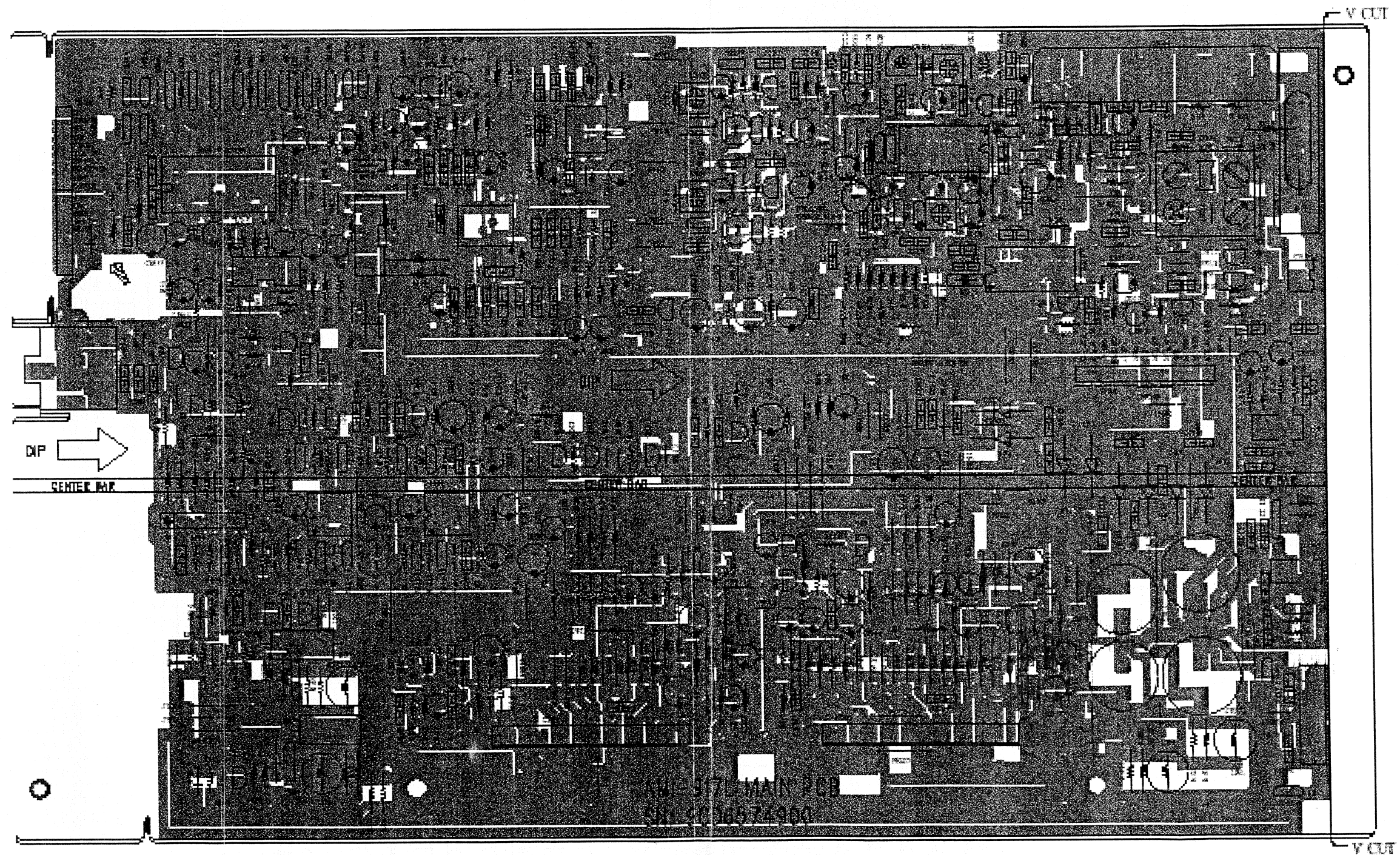


◆ CONTROL

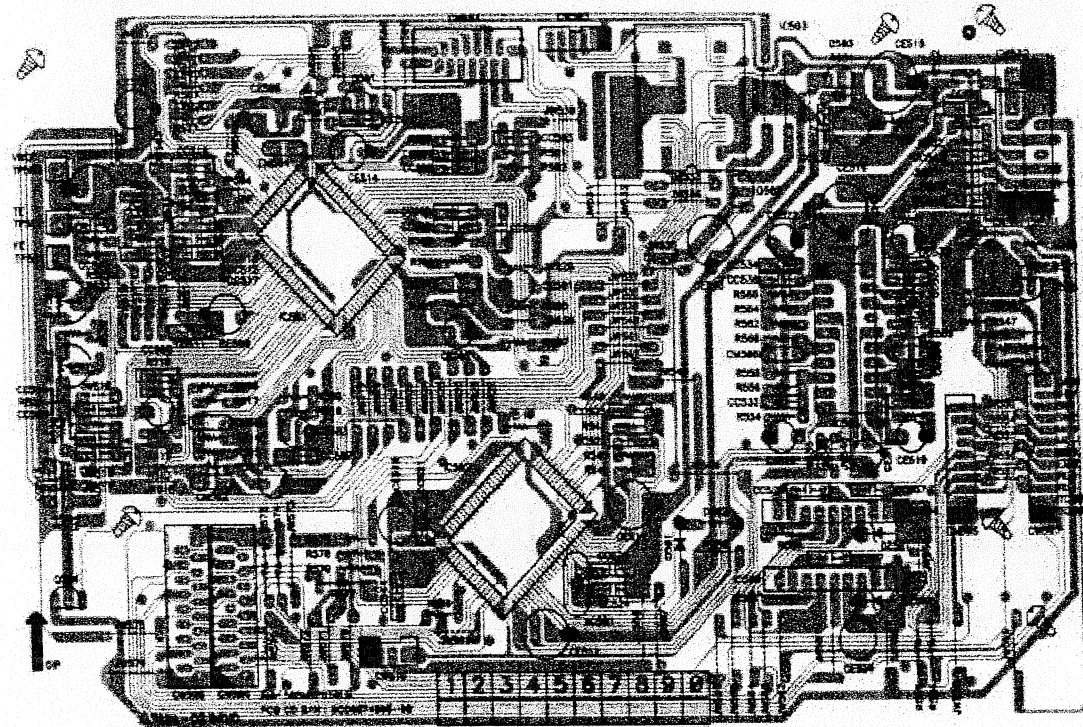
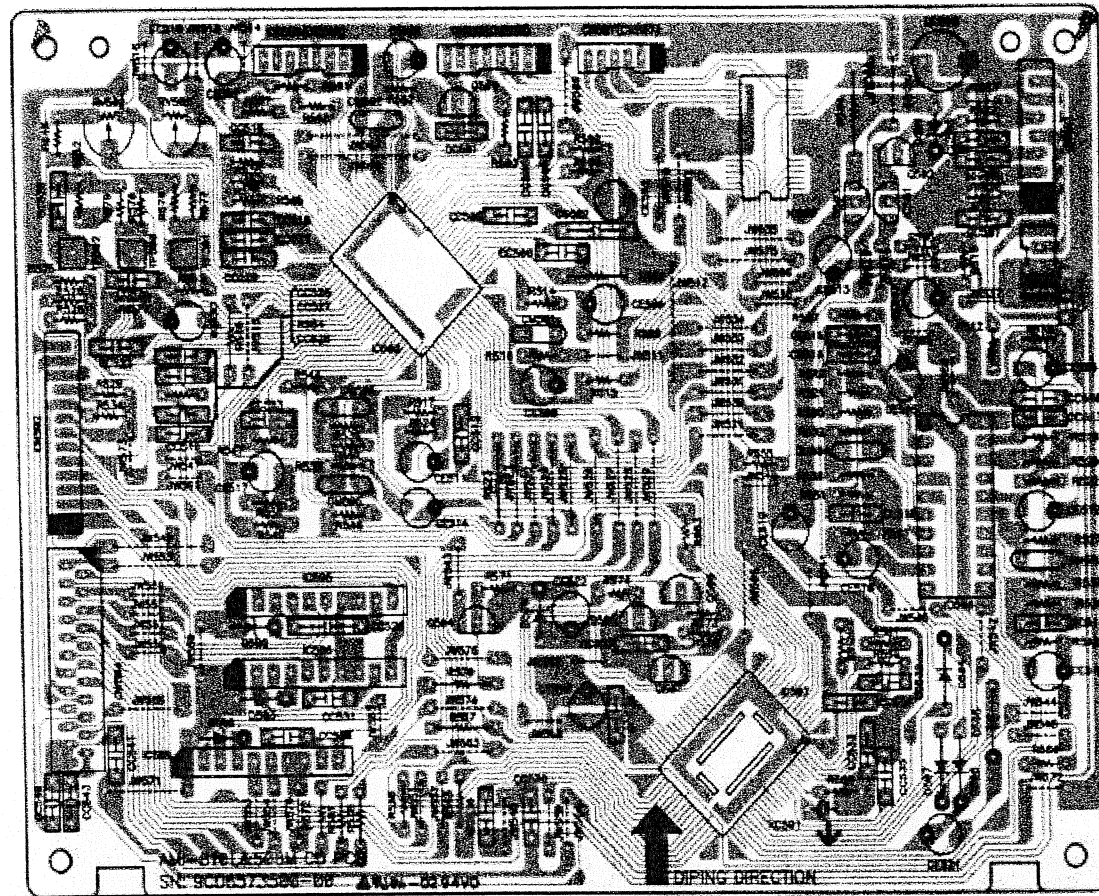


PCB PATTERN LAYOUT

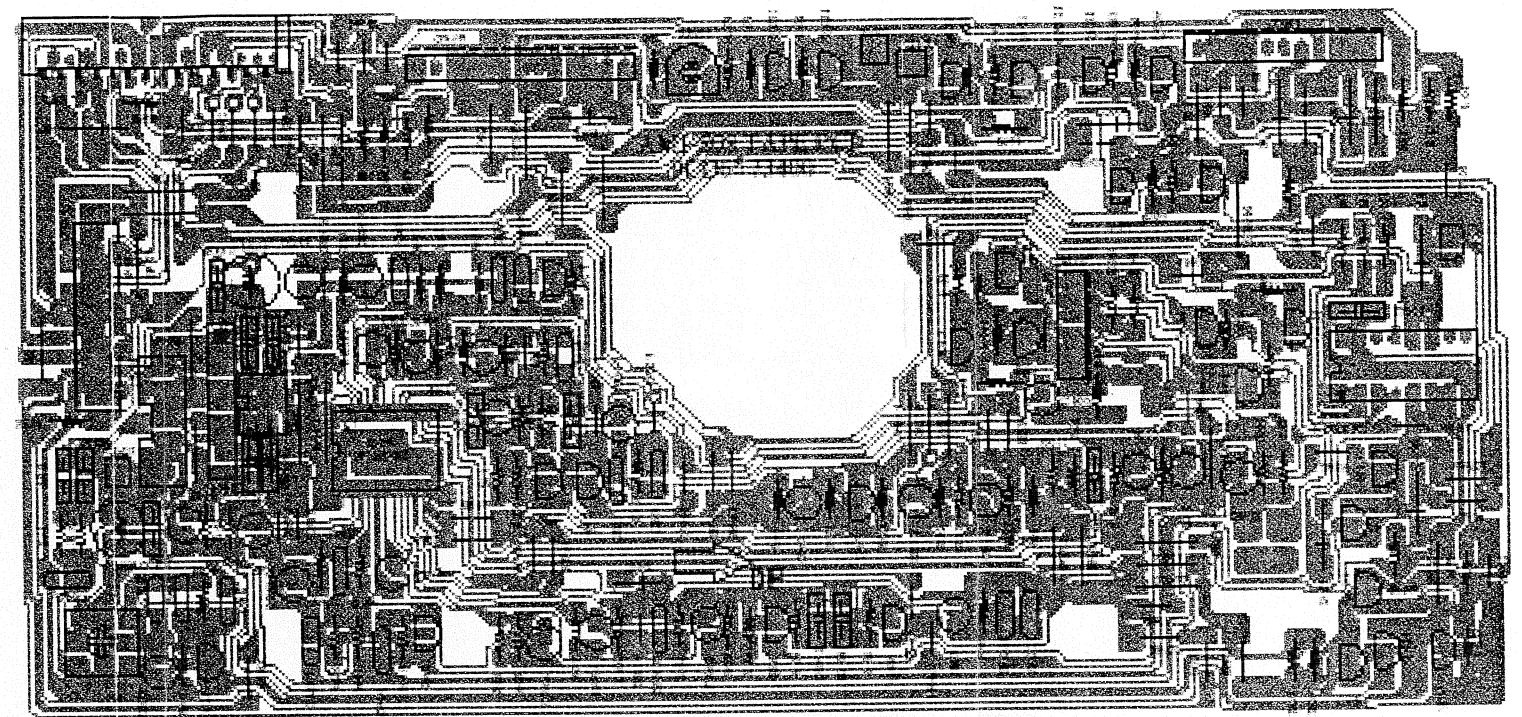
MAIN



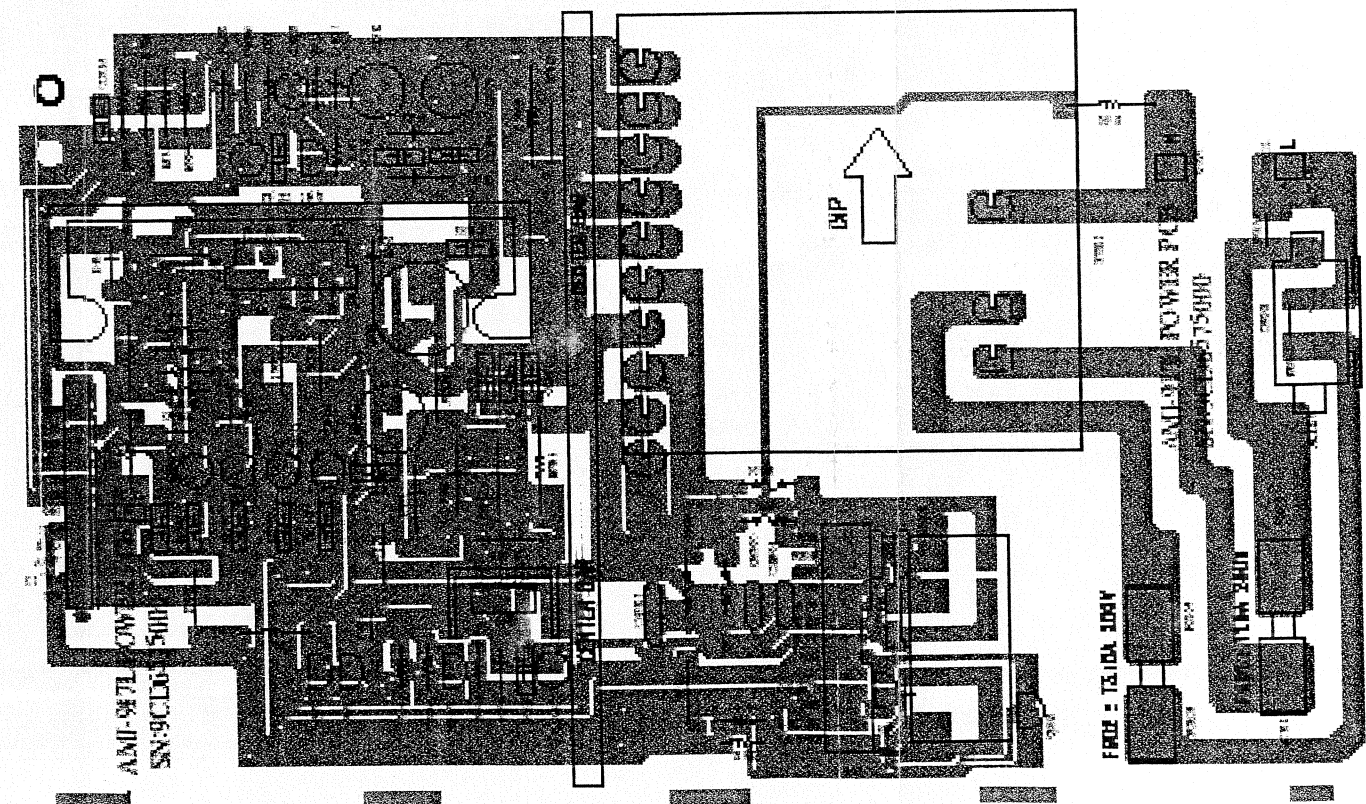
CD



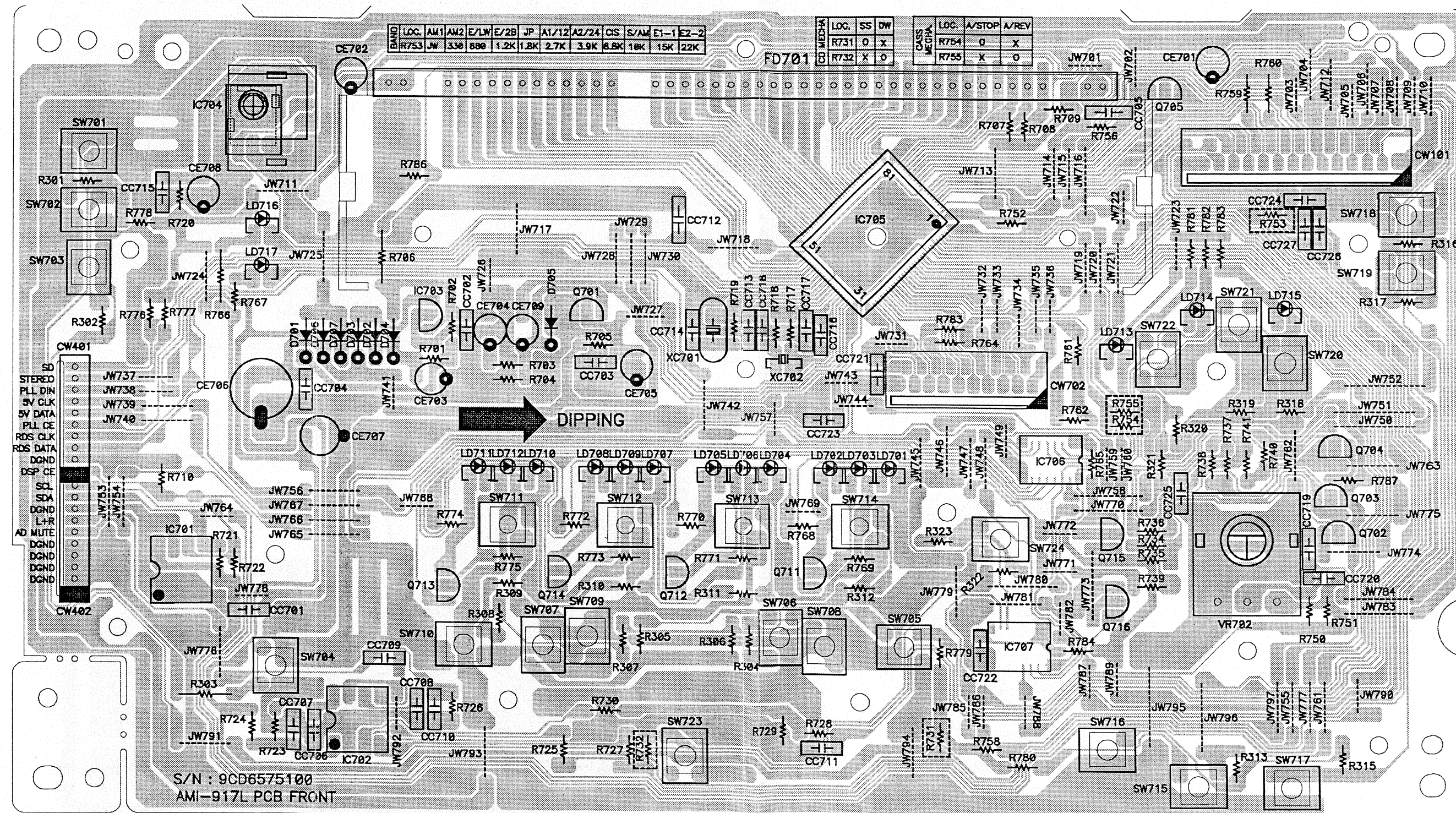
TAPE



POWER



CONTROL



ELECTRICAL PARTS LIST

No	Parts Name	Parts Code	Description	Qty	Location
1	AM RF UNIT	5LR0000826	RBW07VB-K5020	1	L101
2	ANT AM LOOP	5LA180K828	LOOP-7	1	AT101
3	ANTENNA FM	9736806000	2M T-ANT	1	AT102
4	C CERA	CCXB1H101K	50V B 100PF K (TAPPING)	1	CC203
5	C CERA	CCXB1H102K	50V B 1000PF K (TAPPING)	3	CC001 CC253 CC254
6	C CERA	CCXB1H122K	50V B 1200PF K (TAPPING)	1	CC361
7	C CERA	CCXB1H182K	50V B 1800PF K (TAPPING)	4	CC801 CC802 CC861 CC862
8	C CERA	CCXB1H221K	50V B 220PF K (TAPPING)	7	CC481 CC482 CC711 CC805 CC806 CC865 CC866
9	C CERA		50V B 2200PF K (TAPPING)	2	CC352 CC357
10	C CERA	CCXB1H331K	50V B 330PF K (TAPPING)	1	CC270
11	C CERA	CCXB1H472K	50V B 4700PF K (TAPPING)	3	CC213 CC364 CC811
12	C CERA	CCXB1H561K	50V B 560PF K (TAPPING)	2	CC210 CC211
13	C CERA	CCXB1H562K	50V B 5600PF K (TAPPING)	3	CC358 CC449 CC450
14	C CERA	CCXB1H682K	50V B 6800PF K (TAPPING)	1	CC204
15	C CERA	CCXF1H103Z	50V F 0.01MF Z (TAPPING)	26	CC002 CC004 CC102 CC201 CC205 CC206 CC207 CC209 CC252 CC257 [CC275] CC501 CC502 CC503 CC507 CC515 CC521 CC529 CC535 CC536 CC903 CC904 CC905 CC906 CC911 CC912
16	C CERA	CCXF1H104Z	50V F 0.1MF Z	44	CC005 CC006 CC101 CC103 CC202 CC251 CC353 CC355 CC356 CC359 CC360 CC362 CC363 CC365 CC366 CC409 CC463 CC464 CC504 CC505 CC506 CC511 CC512 CC513 CC526 CC527 CC537 CC544 CC703 CC705 CC708 CC712 CC716 CC721 CC723 CC727 CC804 CC8
17	C CERA	CCXF1H223Z	50V F 0.022MF Z (TAPPING)	12	CC403 CC701 CC704 CC707 CC709 CC715 CC722 CC803 CC863 CC923 CC925 CC941
18	C CERA	CCXF1H333Z	50V F 0.033MF Z (TAPPING)	1	CC812
19	C CERA	CCXF1H473Z	50V F 0.047MF Z (TAPPING)	10	CC212 CC351 CC354 CC461 CC462 CC509 CC522 CC528 CC901 CC902
20	C CERA	CCZB1E102K	25V B 1000PF K (AXIAL)	3	CC520 CC533 CC534
21	C CERA	CCZB1E151K	25V B 150PF K (AXIAL)	2	CC531 CC532
22	C CERA	CCZB1E152K	25V B 1500PF K (AXIAL)	1	CC523
23	C CERA	CCZB1E222K	25V B 2200PF K (AXIAL)	2	CC510 CC516
24	C CERA	CCZB1E391K	25V B 390PF K (AXIAL)	1	CC508
25	C CERA	CCZB1E472K	25V B 4700PF K (AXIAL)	3	CC518 CC542 CC543
26	C CERA	CCZB1E682K	25V B 6800PF K (AXIAL)	1	CC514
27	C CERA	CCZB1H102K	50V B 1000PF K	4	CC601 CC602 CC603 CC604
28	C CERA	CCZB1H121K	50V B 120PF K	2	CC613 CC614
29	C CERA	CCZB1H223K	HIBK 50V 0.022MF K AXL 52	1	CC609
30	C CERA	CCZB1H821K	50V B 820PF K	4	CC605 CC606 CC607 CC608
31	C CERA	CCZF1H473Z	50V F 0.047MF Z	1	CC631
32	C CERA	CXCH1H101J	50V CH 100PF J (TAPPING)	13	CC367 CC401 CC402 CC404 CC405 CC483 CC484 CC710 CC719 CC720 CC724 CC725 CC726

ELECTRICAL PARTS LIST

No	Parts Name	Parts Code	Description	Qty	Location
33	C CERA	CXCH1H120J	50V CH 12PF J (TAPPING)	1	CC104
34	C CERA	CXCH1H150J	50V CH 15PF J (TAPPING)	1	CC717
35	C CERA	CXCH1H180J	50V CH 18PF J (TAPPING)	1	CC718
36	C CERA	CXCH1H220J	50V CH 22PF J (TAPPING)	2	CC465 CC466
37	C CERA	CXCH1H330J	50V CH 33PF J (TAPPING)	5	CC255 CC256 CC706 CC713 CC714
38	C CERA	CXCH1H470J	50V CH 47PF J (TAPPING)	1	CC277
39	C CERA	CXCH1H509K	CH 50V 5PF K AXL 52MM	4	CC807 CC808 CC867 CC868
40	C CERA	CXCH1H820J	50V CH 82PF J (TAPPING)	1	CC276
41	C CERA	CZCH1E609K	CH 25V 6PF K AXIAL	1	CC519
42	C CERA	CZCH1E809K	CH 25V 8PF K AXL 52MM	1	CC517
43	C CERA	CZCH1H270J	CH 50V 27PF J AXL 52MM	2	CC524 CC525
44	C CERA	CZCH1H470J	CH 50V 47PF J AX	2	CC611 CC612
45	C ELECTRO	CEXE1C102A	16V RS 1000MF 13X20	1	CE515
46	C ELECTRO	CEXF1A102V	10V RSS 1000MF (10X16) TP	1	CE706
47	C ELECTRO	CEXF1C221V	16V RSS 220MF (8X11.5) TP	5	CE507 CE511 CE512 CE513 CE517
48	C ELECTRO	CEXF1E101V	25V RSS 100MF (6.3X11) TP	13	CE201 CE214 CE251 CE356 CE506 CE508 CE509 CE510 CE514 CE516 CE524 CE602 CE707
49	C ELECTRO	CEXF1E221V	25V RSS 220MF (8X11.5) TP	5	CE102 CE213 CE417 CE463 CE464
50	C ELECTRO	CEXF1E222V	25V RSS 2200MF (16X25) TP	1	CE901
51	C ELECTRO	CEXF1E470V	25V RSS 47MF (5X11) TP	22	CE001 CE203 [CE272] CE355 CE443 CE444 CE451 CE452 CE518 CE523 CE601 CE603 CE604 CE631 CE632 CE863 CE864 CE903 CE904 CE905 CE906 CE941
52	C ELECTRO	CEXF1H100V	50V RSS 10MF (5X11) TP	26	CE206 CE351 CE352 CE411 CE412 CE413 CE414 CE418 CE501 CE504 CE605 CE606 CE607 CE608 CE615 CE616 CE617 CE618 CE619 CE708 CE807 CE808 CE809 CE867 CE868 CE869
53	C ELECTRO	CEXF1H101V	50V RSS 100MF (8X11.5) TP	8	CE810 CE811 CE813 CE815 CE870 CE871 CE921 CE922
54	C ELECTRO	CEXF1H108V	50V RSS 0.1MF (5X11) TP	3	CE613 CE614 CE620
55	C ELECTRO	CEXF1H109V	50V RSS 1MF (5X11) TP	11	CE205 CE207 CE208 CE209 CE210 CE211 CE461 CE462 CE609 CE610 CE709
56	C ELECTRO	CEXF1H220V	50V RSS 22MF (5X11) TP	3	CE204 CE803 CE804
57	C ELECTRO	CEXF1H228V	50V RSS 0.22MF (5X11) TP	1	CE212
58	C ELECTRO	CEXF1H229V	50V RSS 2.2MF (5X11) TP	20	CE101 CE401 CE402 CE403 CE404 CE405 CE406 CE407 CE408 CE415 CE416 CE481 CE482 CE621 CE701 CE702 CE801 CE802 CE861 CE862
59	C ELECTRO	CEXF1H330V	50V RSS 33MF (6.3X11) TP	1	CE471
60	C ELECTRO	CEXF1H339V	50V RSS 3.3MF (5X11) TP	4	CE202 [CE273] CE453 CE454
61	C ELECTRO	CEXF1H470V	50V RSS 47MF (6.3X11) TP	7	CE805 CE806 CE865 CE866 CE873 CE923 CE924
62	C ELECTRO	CEXF1H478V	50V RSS 0.47MF (5X11) TP	3	CE502 CE503 CE505
63	C ELECTRO	CEXF1H479V	50V RSS 4.7MF (5X11) TP	8	CE353 CE354 CE519 CE520 CE521 CE522 CE611 CE612

ELECTRICAL PARTS LIST

No	Parts Name	Parts Code	Description	Qty	Location
64	C ELECTRO	CEYF1E471V	25V RSS 470MF (10X16)	1	CE902
65	C ELECTRO	CEYF1H332V	50V RSS 3300MF	2	CE821 CE822
66	C ELECTRO	CEYF1V222V	35V RSS 2200MF (16X31.5)	2	CE881 CE882
67	C MYLAR	CMXM1H102J	50V 0.001MF J (TP)	4	CM611 CM612 CM613 CM614
68	C MYLAR	CMXM1H103J	50V 0.01MF J (TP)	10	CM202 CM203 CM204 CM205 CM607 CM608 CM901 CM902 CM905 CM906
69	C MYLAR	CMXM1H104J	50V 0.1MF J	14	CM405 CM406 CM407 CM408 CM411 CM412 CM413 CM414 CM801 CM802 CM861 CM862 CM903 CM907
70	C MYLAR	CMXM1H122J	50V 0.0012MF J	2	CM505 CM506
71	C MYLAR	CMXM1H152K	50V 1500 PF K	2	CM605 CM606
72	C MYLAR	CMXM1H153J	50V 0.015MF J (TP)	1	CM201
73	C MYLAR	CMXM1H183J	50V 0.018MF J	6	CM401 CM402 CM503 CM600 CM603 CM604
74	C MYLAR	CMXM1H223J	50V 0.022MF J	3	CM403 CM404 CM617
75	C MYLAR	CMXM1H273J	50V 0.027 MF J	4	CM447 CM448 CM601 CM602
76	C MYLAR	CMXM1H332J	50V 3300 PF J	2	CM615 CM616
77	C MYLAR	CMXM1H333J	50V 0.033MF J (TP)	2	CM501 CM504
78	C MYLAR	CMXM1H392J	50V 0.0039MF J	1	CM618
79	C MYLAR	CMXM1H562J	50V 5600 PF J	4	CM206 CM207 CM409 CM410
80	C MYLAR	CMXM1H563J	50V 0.056MF J	4	CM443 CM444 CM445 CM446
81	C MYLAR	CMXM1H683J	50V 0.068 MF J	3	CM441 CM442 CM502
82	CLIP FUSE	9734600700	FC-5N	2	FC901 FC902
83	COIL BIAS OSC	5L0503K643	SM-10F 5.04MH	1	L603
84	COIL CHOKE	5LC333K804	33MH K	2	L601 L602
85	COIL CHOKE	5LC682K822	6.8MH	2	L204 L205
86	COIL DESCRIMINA-TOR	5107FBK473	7X7 BLK KSZ-73S	1	L203
87	COIL PEAKING	5CPZ100K02	10UH K (AXIAL 3.5MM)	2	L001 L251
88	CONN AS	9738824100	2P UL2468 400MM	1	CN503
89	CONN AS	9738828500	AWG26 2468 11P 100MM	1	CN603
90	CONN AS	9738828600	AWG26 2468 13P 100MM	1	CN604
91	CONN AS	9738828700	AWG28 3P SHIELD 220MM	1	CN601 CW601
92	CONN AS	9738828800	AWG28 7P SHIELD 100MM	1	CN602 CW602
93	CONN AS	9738828900	AWG28 6P 180MM	1	CN108 CW108
94	CONN AS	9738829100	AWG24 1007 13P 120MM	1	CN106 CW106
95	CONN AS	9738832100	7P 200 P=2.5 BOARDIN	1	CN509 CW509
96	CONN AS	9738833100	UL1007 #22 13P 300MM 2.5M	1	CN801 CW801
97	CONN AS	9738840800	FFC 16P P1.0X250MM R	1	CN501
98	CONN AS	9738840900	FFC 19P P1.25X110MM K	1	CN508
99	CONN CARD CABLE	9738833200	FLEX 28P P=1.25 150MM	1	CN401
100	CONN PIN	9736407800	53095-1010 10PIN ANGLE	2	CN401 CN402
101	CONN WAFER	9736407900	52084-1010 10P BOTTOM	2	CW401 CW402
102	CONN WAFER	9736408000	52492-2820 28P BOTTOM	1	CW101
103	CONN WAFER	9736408100	52044-2845 SIDE ENTRY	1	CW605
104	CONN WAFER	9736408300	52492-1920 19P BOTTOM	1	CW702
105	CONN WAFER	9736408400	52045-1945 19P	1	CW508

ELECTRICAL PARTS LIST

No	Parts Name	Parts Code	Description	Qty	Location
106	CONN WAFER	9CD6258800	2P S2B-XH-A	1	CW101
107	CONN WAFER	9CD6259300	52807-1610	1	CW501
108	CONN WAFER	9CD6259400	2001-WS-12P	1	CW507
109	CONN WAFER	9CD6259500	2001-WS-6P	1	CW503
110	CONN WAFER	9CD6259600	2503-WS-2P	1	CW502
111	CORD AC	9736900200	KKP419C,KLCE-2F,0.75SQURE	1	AC901
112	CRYSTAL QUARTZ	5XA32R768-	DT-38 32.768KHZ 20PPM	1	XC702
113	DIODE	D1N4001-	1N4001	6	D801 D802 D861 D862 D921 D922
114	DIODE	D1N5402-	1N5402	8	D811 D812 D813 D814 D871 D872 D873 D874
115	DIODE	DRL202--	RL202	4	D901 D902 D903 D904
116	DIODE	DZN4148-	1N4148 AUTO 52MM	27	D201 D401 D402 D403 D404 D501 D502 D601 D602 D603 D604 D605 D606 D607 D608 D609 D610 D705 D706 D707 D803 D804 D805 D806 D905 D906 D907
117	DIODE ZENER	DZTZ12B-	MTZ 12V 26MM TAPPING	1	DZ941
118	DIODE ZENER	DZTZ30B-	MTZ30B	1	DZ931
119	DIODE ZENER	DZTZ3R9B--	MTZ3.9B	1	DZ502
120	DIODE ZENER	DZTZ5R6B--	UZ-5.6B	3	DZ501 DZ503 DZ504
121	DIODE ZENER	DZTZ6R2B--	MTZ6.2B	1	DZ932
122	FILTER	5PPCFAZ077	PCFAZ077	1	CF201
123	FILTER CERA	5PE107MJA-	SFE 10.7MHZ RED	1	CF002
124	FILTER CERA	5PE107MS2A	SFE107MS2-A	1	CF001
125	FUSE	5F1CM1031M	UL/CSA 3.1X5.54MM 10A 60V	2	F903 F904
126	FUSE GLASS TUBE	5FSGB1622L	SEMKO TL 1.6A 250V MF51	1	F901
127	IC	1BA1450S--	BA1450S	1	IC201
128	IC	1BA4560N--	BA4560N(H/P AMP)	1	IC404
129	IC	1BU4094BCF	BU4094BCF(SOP16)	2	IC706 IC707
130	IC	1DBL2084--	DBL2084(D/W)	2	IC504 IC506
131	IC	1L4959--	L4959	1	IC901
132	IC	1LC72130--	LC72130	1	IC202
133	IC	1M24C04-	M24C04-BN6	1	IC701
134	IC	1M51167BFP	M51167BFP (SOP36S)	1	IC601
135	IC	1M65849BFP	M65849BFP(DIP32)	1	IC351
136	IC	1MC4558D--	MC4558D	2	IC402 IC403
137	IC	1MC7805-	MC 7805 (KA7805)	1	IC205
138	IC	1MSGEQ5A--	MSGEQ5A	1	IC702
139	IC	1STK41322-	STK-4132-2	1	IC802
140	IC	1STK41622-	STK4162-2	1	IC801
141	IC	1TDA7479D-	TDA7479D	1	IC204
142	IC	1UPC1330HA	UPC1330HA	1	IC602
143	IC AUDIO	1KA9270-	KA9270	1	IC505
144	IC AUDIO	1TDA7439--	TDA7439	1	IC401
145	IC AUDIO DSP	1KA9282B--	KA9282B	1	IC502
146	IC CHIP	1KA9258D--	KA9258D	1	IC503
147	IC CHIP RF	1KA9220B--	KA9220B	1	IC501

ELECTRICAL PARTS LIST

No	Parts Name	Parts Code	Description	Qty	Location
148	IC MICOM	1M38199917	M38199917	1	IC705
149	IC PORT	1BU4094BC-	BU4094BC	1	IC603
150	IC PRE AMP	1TM97CT38P	LTM97CT-38P	1	IC704
151	JACK ANT	9736321900	PAT645	1	J001
152	JACK HEADPHONE	9766319501	HTJ-064-05B GOLD	1	J402
153	JACK PIN	9736322600	HSP-242VS-01	1	J802
154	JACK RCA	9CD6313700	S-436P	1	J401
155	JACK SPEAKER	9736320500	CJ-9007-040	1	J801
156	LED	DLTL16KEE-	LTL-16KEE(RED)PI3.1	4	LD703 LD706 LD709 LD712
157	LED	DLTL16KGE-	LTL-16KGE(GREEN)PI3.1	8	LD701 LD702 LD704 LD705 LD707 LD708 LD710 LD711
158	LED	DLTL307EE-	LTL-307EE(RED)PI5	2	[LD716] LD717
159	LED	DLTL307GE-	LTL-307GE(GREEN)PI5	3	LD713 LD714 LD715
160	LED	DLTL87HEE-	LTL-87HEE(RED)PI3	2	LD510 LD512
161	LED	DLTL87HGE-	LTL-87HGE(GREEN)PI3	2	LD511 LD513
162	PIN WRAPPING	9713550400	1.0X2.5X15	4	TP501 TP502 TP503 TP504
163	PIN WRAPPING	9716404000	MFZN1.1X1.1 PANASERT	5	TP601 TP602 TP603 TP901 TP902
164	R CARBON FILM	RD-2Y229J-	1/2 2.2 OHM J	1	R550
165	R CARBON FILM	RD-4Z100J-	1/4 10 OHM J	2	R588 R589
166	R CARBON FILM	RD-4Z101J-	1/4 100 OHM J	4	R815 R820 R875 R880
167	R CARBON FILM	RD-4Z103J-	1/4 10K OHM J	6	R828 R829 R830 R831 R832 R898
168	R CARBON FILM	RD-4Z124J-	1/4 120K OHM J	2	R825 R891
169	R CARBON FILM	RD-4Z221J-	1/4 220 OHM J	1	R435
170	R CARBON FILM	RD-4Z222J-	1/4 2.2K OHM J	11	R809 R810 R816 R817 R818 R819 R870 R876 R877 R878 R879
171	R CARBON FILM	RD-4Z393J-	1/4 39K OHM J	2	R827 R893
172	R CARBON FILM	RD-4Z472J-	1/4 4.7K OHM J	8	R811 R812 R813 R814 R871 R872 R873 R874
173	R CARBON FILM	RD-4Z475J-	1/4 4.7M OHM J	1	R947
174	R CARBON FILM	RD-4Z562J-	1/4 5.6K OHM J	3	R894 R895 R896
175	R CARBON FILM	RD-4Z563J-	1/4 56K OHM J	4	R805 R806 R865 R866
176	R CARBON FILM	RD-4Z683J-	1/4 68K OHM J	2	R826 R892
177	R CARBON FILM	RD-4Z689J-	1/4 6.8 OHM J	4	R821 R822 R823 R824
178	R CARBON FILM	RD-AZ100J-	1/6 10 OHM J	8	R004 R009 R206 R255 R545 R720 R908 R921
179	R CARBON FILM	RD-AZ101J-	1/6 100 OHM J	18	R008 R102 R227 R228 R301 R304 R313 R445 R446 R459 R460 R546 R643 R671 R719 R724 R728 R730
180	R CARBON FILM	RD-AZ102J-	1/6 1K OHM J	63	R208 R215 R216 R251 R256 R260 R261 R262 R263 R351 R352 R409 R410 R423 R424 R431 R432 R436 R437 R443 R444 R457 R458 R483 R484 R489 R490 R495 R496 R511 R521 R522 R563 R564 R580 R607 R608 R611 R61

ELECTRICAL PARTS LIST

No	Parts Name	Parts Code	Description	Qty	Location
181	R CARBON FILM	RD-AZ103J-	1/6 10K OHM J		L208 R213 R214 R254 R257 R258 R359 R361 R362 R451 R452 R467 R468 R579 R615 R616 R633 R634 R659 R675 R676 R677 R691 R692 R693 R694 R695 R696 R705 R710 R721 R722 R732 R735 R738 R755 R756 R758 R76
182	R CARBON FILM	RD-AZ103J-	1/6 10K OHM J		L208 R213 R214 R254 R257 R258 R276 R277 R359 R361 R362 R451 R452 R467 R468 R579 R615 R616 R633 R634 R659 R675 R676 R677 R691 R692 R693 R694 R695 R696 R705 R710 R721 R722 R732 R735 R738 R755 R75
183	R CARBON FILM	RD-AZ104J-	1/6 100K OHM J	39	R109 R353 R354 R360 R421 R422 R425 R426 R433 R434 R439 R440 R453 R454 R455 R456 R465 R466 R471 R472 R473 R474 R502 R510 R518 R519 R548 R549 R567 R568 R584 R585 R613 R614 R635 R639 R690 R762 R76
184	R CARBON FILM	RD-AZ105J-	1/6 1M OHM J	5	R505 R508 R559 R560 R641
185	R CARBON FILM	RD-AZ106J-	1/6 10M OHM J	1	R717
186	R CARBON FILM	RD-AZ109J-	1/6 1 OHM J	2	R939 R940
187	R CARBON FILM	RD-AZ121J-	1/6 120 OHM J	1	R551
188	R CARBON FILM	RD-AZ122J-	1/6 1.2K OHM J	2	[R753] R833 R834
189	R CARBON FILM	RD-AZ123J-	1/6 12K OHM J	14	R259 R509 R523 R531 R532 R533 R538 R539 R557 R558 R619 R620 R621 R622
190	R CARBON FILM	RD-AZ124J-	1/6 120K OHM J	1	R513
191	R CARBON FILM	RD-AZ151J-	1/6 150 OHM J	2	R302 R305
192	R CARBON FILM	RD-AZ152J-	1/6 1.5K OHM J	10	R322 R609 R610 R778 R779 R780 R801 R802 R861 R862
193	R CARBON FILM	RD-AZ153J-	1/6 15K OHM J	7	R403 R404 R515 R553 R554 R653 R654
194	R CARBON FILM	RD-AZ154J-	1/6 150K OHM J	2	R503 R525
195	R CARBON FILM	RD-AZ181J-	1/6 180 OHM J	2	R303 R306
196	R CARBON FILM	RD-AZ182J-	1/6 1.8K OHM J	5	R413 R414 R475 R476 R741
197	R CARBON FILM	RD-AZ183J-	1/6 18K OHM J	7	R201 R203 R449 R450 R487 R488 R526
198	R CARBON FILM	RD-AZ184J-	1/6 180K OHM J	2	R504 R723
199	R CARBON FILM	RD-AZ220J-	1/6 22 OHM J	7	R481 R482 R491 R492 R493 R494 R534
200	R CARBON FILM	RD-AZ221J-	1/6 220 OHM J	4	R438 R552 R933 R934
201	R CARBON FILM	RD-AZ222J-	1/6 2.2K OHM J	23	R211 R212 R253 R264 R405 R406 R407 R408 R441 R442 R463 R464 R477 R478 R479 R480 R581 R682 R684 R686 R729 R869 R942
202	R CARBON FILM	RD-AZ223J-	1/6 22K OHM J	8	R107 R358 R411 R412 R528 R530 [R753] R904
203	R CARBON FILM	RD-AZ224J-	1/6 220K OHM J	1	R726

ELECTRICAL PARTS LIST

No	Parts Name	Parts Code	Description	Qty	Location
204	R CARBON FILM	RD-AZ271J-	1/6 270 OHM J	6	R307 R316 R769 R771 R773 R775
205	R CARBON FILM	RD-AZ272J-	1/6 2.7K OHM J	7	R222 R223 R323 R427 R428 R837 R838
206	R CARBON FILM	RD-AZ273J-	1/6 27K OHM J	6	R542 R555 R556 R843 R844 R845
207	R CARBON FILM	RD-AZ274J-	1/6 270K OHM J	4	R447 R448 R627 R628
208	R CARBON FILM	RD-AZ331J-	1/6 330 OHM J	5	R007 R308 R315 R317 R687
209	R CARBON FILM	RD-AZ332J-	1/6 3.3K OHM J	9	R005 R106 R221 R516 R541 R543 R640 R839 R840
210	R CARBON FILM	RD-AZ333J-	1/6 33K OHM J	1	R759
211	R CARBON FILM	RD-AZ334J-	1/6 330K OHM J	3	R718 R761 R763
212	R CARBON FILM	RD-AZ390J-	1/6 39 OHM J	2	R765 R784
213	R CARBON FILM	RD-AZ391J-	1/6 390 OHM J	6	R309 R318 R768 R770 R772 R774
214	R CARBON FILM	RD-AZ392J-	1/6 3.9K OHM J	5	R415 R416 R469 R470 R529
215	R CARBON FILM	RD-AZ393J-	1/6 39K OHM J	5	R520 R537 R572 R586 R587
216	R CARBON FILM	RD-AZ470J-	1/6 47 OHM J	5	R003 R209 R252 [R275] R663
217	R CARBON FILM	RD-AZ471J-	1/6 470 OHM J	6	R310 R319 R355 R356 R941 R945
218	R CARBON FILM	RD-AZ472J-	1/6 4.7K OHM J	30	R101 R103 R104 R105 R207 R210 R547 R561 R562 R565 R566 R573 R574 R575 R576 R577 R578 R582 R583 R605 R606 R636 R637 R638 R664 R688 R752 R787 R909 R911
219	R CARBON FILM	RD-AZ473J-	1/6 47K OHM J	5	R512 R750 R751 R902 R906
220	R CARBON FILM	RD-AZ474J-	1/6 470K OHM J	7	R217 R218 R501 R540 R631 R632 R642
221	R CARBON FILM	RD-AZ479J-	1/6 4.7 OHM J	1	R660
222	R CARBON FILM	RD-AZ561J-	1/6 560 OHM J	6	R311 R320 R569 R570 R571 R689
223	R CARBON FILM	RD-AZ562J-	1/6 5.6K OHM J	7	R429 R430 R527 R617 R618 R841 R842
224	R CARBON FILM	RD-AZ563J-	1/6 56K OHM J	13	R485 R486 R514 R517 R644 R649 R650 R661 R662 R803 R804 R863 R864
225	R CARBON FILM	RD-AZ680J-	1/6 68 OHM J	3	R601 R602 R656
226	R CARBON FILM	RD-AZ681J-	1/6 680 OHM J	12	R006 R629 R630 [R766] R767 R781 R782 R783 R807 R808 R867 R868
227	R CARBON FILM	RD-AZ682J-	1/6 6.8K OHM J	3	R219 R603 R604
228	R CARBON FILM	RD-AZ683J-	1/6 68K OHM J	3	R707 R708 R709
229	R CARBON FILM	RD-AZ689J-	1/6 6.8 OHM J	6	R697 R698 R881 R882 R883 R884
230	R CARBON FILM	RD-AZ820J-	1/6 82 OHM J	1	R506
231	R CARBON FILM	RD-AZ821J-	1/6 820 OHM J	2	R312 R321
232	R CARBON FILM	RD-AZ822J-	1/6 8.2K OHM J	4	R401 R402 R507 R524
233	R CARBON FILM	RD-AZ823J-	1/6 82K OHM J	2	R535 R536
234	R CEMENT	RX02L228J-	2W 0.22 OHM J	2	R835 R836
235	R FUSIBLE	RF01F4780J	0.47OHM 1W	2	RF901 RF902
236	R SEMI FIXED	RV1417222-	1/10 2.2K OHM B V6EK-PV1S	1	RV601
237	R SEMI FIXED	RV6417223-	VM6CK-PV(1S) B 22K OHM	3	RV201 RV501 RV502
238	RESONATOR	5PCSA8MTZ-	CSA8MTZ, 8MHZ	1	XC701
239	RESONATOR CERA	5PCSA16R93	CSA16.93MXZ04	1	XC501
240	SW ENCODER	5SH162401-	EC16B24204 24P W/DETENT	1	VR702

ELECTRICAL PARTS LIST

No	Parts Name	Parts Code	Description	Qty	Location
241	SW RELAY	5SC0201103	HR-CR323 2C-1P DC12V	1	RY901
242	SW TACT	5S50101001	KPT-1105A 1C-1P	24	SW701 SW702 SW703 SW704 SW705 SW706 SW707 SW708 SW709 SW710 SW711 SW712 SW713 SW714 SW715 SW716 SW717 SW718 SW719 SW720 SW721 SW722 SW723 SW724
243	TR	TKRA107M--	KRA107M (KSR2006)	4	Q003 Q614 Q615 Q616
244	TR	TKRA111M--	KRA111-M TAPPING(KSR2010)	8	Q613 Q623 Q711 Q712 Q713 Q714 Q715 Q942
245	TR	TKRC107M--	KRC107-M TAPPING(KSR1006)	5	Q607 Q634 Q635 Q636 Q701
246	TR	TKRC111M--	KRC111M (KSR1010)	9	Q601 Q602 Q605 Q606 Q625 Q638 Q702 Q703 Q705
247	TR	TKSA928AY-	KSA928A-Y	2	Q501 Q502
248	TR	TKSC2331Y-	KSC2331Y	1	Q503
249	TR	TKSR1003--	KSR1003	1	Q504
250	TR	TKTB1366Y-	KTB1366Y	1	Q944
251	TR	TZRA107M--	KRA107M (KSR2006)	4	Q443 Q453 Q473 Q483
252	TR	TZRC107M--	KRC107M(AUTO)	4	Q716 Q804 Q901 Q941
253	TR	TZTA1266Y-	KTA1266Y- (AUTO)(1015Y)	2	Q637 Q803
254	TR	TZTA1273Y-	KTA1273Y(966Y)	4	Q624 Q631 Q632 Q633
255	TR	TZTA1274Y-	KTA1274Y-	1	Q921
256	TR	TZTC3194Y-	KTC3194Y	1	Q001
257	TR	TZTC3198Y-	KTC3198Y-(1815Y) (AUTO)	20	Q201 Q202 Q441 Q442 Q451 Q452 Q461 Q462 Q471 Q472 Q505 Q611 Q612 Q621 Q622 Q704 Q801 Q802 Q902 Q943
258	TR	TZTC3205Y-	KTC3205Y (2236Y)	1	Q628
259	TR	TZTD1302Y-	KTD1302Y AUTO	2	Q481 Q482
260	TRANS POWER	5TP8074761	EI=74 230V 50HZ	1	PT901
261	TUNER PACK	9737612700	FTA3-503V	1	TU001
262	VFD	DBJ638GK--	BJ638GK	1	FD701
263	WIRE JUMPER	W581GY1005	AWG22 1/0.65 SN 10 AUTO	6	F905 F906 L801 L802 L861 L862
264	WIRE JUMPER	W581GY6095	AWG22 1/0.65 SN 6 AUTO	1	R002
265	X-TAL	5XA4R332M-	4.332M	1	XC270
266	X-TAL	5XA7R20000	7.2M	1	XC251

015.025-0
036.178-2
035.812-7
035.866-3
248.674-4
484.536-8
769.966-3



Serviceunterlage

Ergänzung zur
Minianlage (2.Ausf.)
Neue CD-Mechanik

UTS-Nr.: 999 QUELLE
Best.Nr.: 0150250/02
Ger.Bez.: UNIVERSUM MINIANLAGE

GKz: G GERAET
WGT: 650 MICRO-/MINI-ANLAGEN
KD-Sektor: R RUNDFUNK
BaumNr.: 00 KEIN DIAGNOSEBAUM VORHANDEN
Klassierung: STK STEREOKOMBINATION
IFW-FehlerGru.: 205 RDF., VERST., TB., PHONO, CD, CB
Type/Privileg/Universum.Nr
Beschreibung BGL.MIT 484.536
VK-Preis: 399.00

Serviceart: 01 PROPECTIS
Garantie fuer Kunden 12 Monate
Sondervereinbarungen: 0 SIEHE SERVICEART

Garantiereparatur 0004063 PROPECTIS GMBH
Sondervereinbarungen: 0 SIEHE SERVICEART

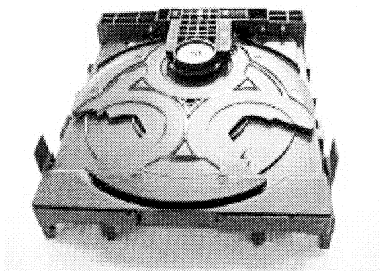
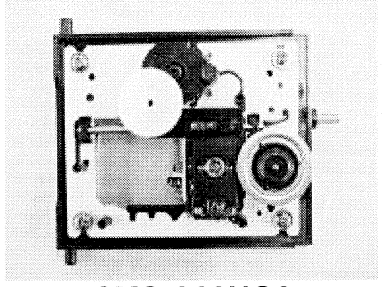
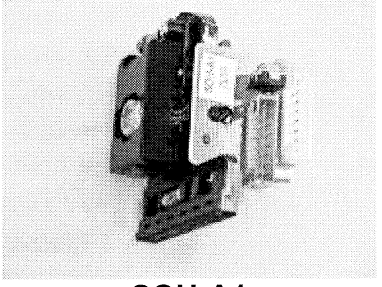
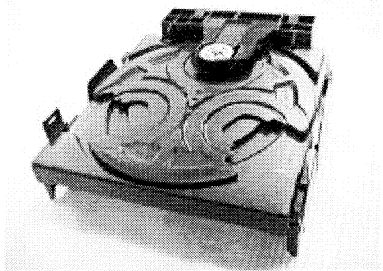
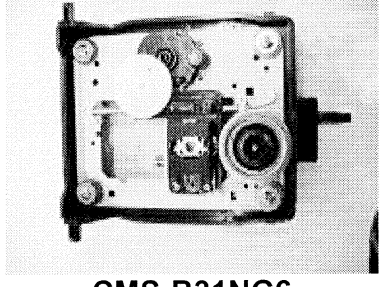
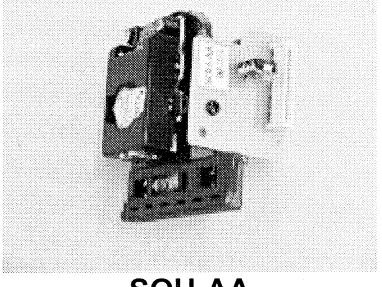
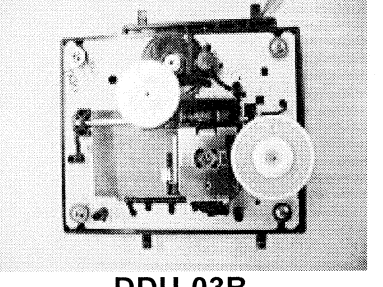
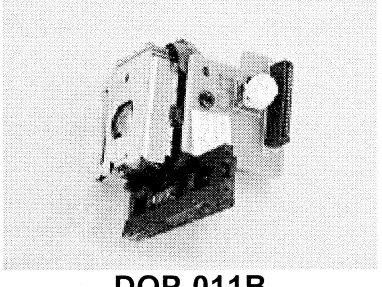
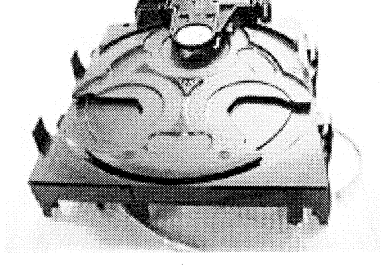
Katalog	Seite
Erst 005 SONDERKATALOGE H/W 2000	0000
Letzt 005 SONDERKATALOGE H/W 2000	0000

Geraete Info:

Technische Daten:

Fehler:

CD Deck Mechanism Reference Table

S/N [Maker]	Mechanism	Driving unit	Optical Pick-up
9CD3006100 [SAMSUNG] CMS-CR3		 CMS-A30NG6	 SOH-A1
9CD3006600 [SAMSUNG] CMS-FR3		 CMS-B31NG6	 SOH-AA
9CD6007100 [SAMSUNG] CMS-FR3B		 DDU-03B	 DOP-011B
9CD3006900 [DAEWOO] DCC-01BD/A			

CD Deck Mechanism Reference & PCB Matching Table

CD Deck Mechanism S/N	Maker	Mechanism	Driving Unit	Optical Pick-up	MI-Com	MODEL	PCB S/N	Circuit Diagram
9CD3006100	SAMSUNG	CMS-CR3	CMS-A30NG6	SOH-A1	1M38184508	AMI-508M/511M AMI-708M/711M	9CD6573500	A1
					1M38184810	AMI-810L	"	"
9CD3006600	"	CMS-FR3	"	"	1M38199---	AMI-308M/308R	9CD6574300	B3
					1M38199710	AMI-310L/710L AMI-810LCG	"	"
9CD6007100 9CD3006900	SAMSUNG DAEWOO	CMS-FR3B DCC-01BD/A	CMS-B31NG6 DDU-03B	SOH-AA DOP-011B	1M3818481N	AMI-810LN	9CD6574800	EM1
					1M3818450N	AMI-508MN/511MN AMI-708MN	"	"
					1M38199316	AMI-316L/317L AMI-716L/717L	"	"
					1M38199917	AMI-816L/817L AMI-917L/816LS AMI-817LS/910L	"	"
					1M38199208	AMI-208MC/308MC AMI-508MC/211MC AMI-311MC	"	"
					1M38199319	AMI-224M/324M AMI-318M/518M AMI-319M/519M	"	"
					1M38199516	AMI-516DP/517DP	"	"
					1M38199721	AMI-721L/726L AMI-921DP	"	"

Schematic Diagram (B3) CD Modification List

Issued by CD part
Issued on 2000 . 3. 8.

No.	Problem	Locations	Before	After	Date	Mechanism
	Comment	R535	1k	1k	1998.01.??.	
1	EMI spec over	CC547, CC545, CC548, CC546	---	C cera 0.1u	1998.02.??.	FR-3
2	CD door OP/CL noise on radio function	CC530	---	C cera 0.1u	1998.02.??.	FR-3
3	EMI spec over	CC542, CC543	c cera 390p	C cera 0.0047u	1998.02.??.	FR-3
4	Tray(roulette) positioning error	R547	12k	4.7k	1998.02.??.	FR-3
5	Electrostatic spec over	CC544	---	C cera 0.1u	1998.02.??.	FR-3
6	EMI spec over	R573, R575, R578	---	4.7k	1998.02.??.	FR-3
7	Burn resister	R588, R589	1/6W 10 ohm	1/4W 10 ohm	1998.02.??.	FR-3
8	EMI spec over	CC537, CC538, CC539, C540, CC541	150p	delete	1998.02.??.	FR-3
9	TOC reading error in strong radio frequency field	R536, R536	---	1k	1998.02.??.	FR-3
10	Tray(roulette) positioning error	DZ502	Z4.3V	Z3.9V	1998.03.??.	FR-3
11	EMI spec over	R576, R577, R574	---	4.7k	1998.03.??.	FR-3
		R579	4.7k	10k		
12	Cost Down	XC501	X-tal	Resonator	1998.10.??.	FR-3
		CC524,CC525	27p	22p		
13	High temperature operation NG	CC529, CC535, CC536, CC507, CC521 CC501, CC502, CC503, CC515	C Cera 0.01u Radial	C Cera 0.01u Axial	1999.10.24.	FR-3

Schematic Diagram (EM1) CD Modification List

Issued by CD part
Issued on 2000 . 3. 8.

No.	Problem	Locations	Before	After	Date	Mechanism
1	EMI spec over	CC542, CC543	C cera 390p	C cera 0.0047u	1998.10.??.	All
2	EMI spec over	CC547, CC545	---	C cera 0.1u	1998.10.??.	All
3	EMI spec over	CC548, CC546, CC549	---	"	1998.10.??.	
4	Cost down	XC501	X-tal	Resonator	1998.10.??.	All
		CC524,CC525	27p	22p		
5	Electrostatic spec over	CC544	---	R cera 0.1u	1998.10.??.	All
6	CD door op/cl noise on radio function	CC537	---	C cera 0.1u	1998.10.??.	All
7	Tray(roulette) positioning error	R547	12k	4.7k	1998.10.??.	All
8	EMI spec over	R576, R577, R574	---	4.7k	1998.10.??.	
		R579	4.7k	10k		
9	EMI spec over	R573, R575, R578	---	4.7k	1998.10.??.	
10	Weak playability on scratch which is made radial direction	CC508	120p	390p	1998.11.??.	FR-3
		CC516	120p	0.0022u		

No.	Problem	Locations	Before	After	Date	Mechanism
11	Burn resister	R588, R589	1/6W 10 ohm	1/4W 10 ohm	1998.12.??.	All
12	Tray(roulette) positioning error	DZ502	Z4.3V	Z3.9V	1999.01.??.	Daewoo
13	Reduce stand-by current	R546	100 ohm	220ohm	1999.01.??.	All
14	Cannot read TOC at some disc	R517	56k	82k	1999.02.05.	Daewoo
15	Cannot read TOC at some disc	CC519	6p	3p	1999.02.05.	Daewoo
16	Noise at outer tracks in 783 disc	R517	82k	56k	1999.02.05.	Daewoo
17	Eccentricity disc error	R535, R536	120K	82k	1999.03.06.	FR-3B
		turn table	B31SG6	B31NG6		
18	Track jump by sound pressure	R524	5.6k	8.2k	1999.03.06.	FR-3B
19	EMI spec over	CC550	---	C cera 0.1u	1999.04.??.	All
		R590	---	1k		
20	EMI spec over	CC544	Reset to GND	Reset to Vcc	1999.04.??.	All
		CC563	----	C cera 100p		
		R511	Near DSP IC	Near SSP IC		
21	731RA noise	CC517	8p	33p	1999.05.05.	FR-3B
		R532, R533	12k	10k		
22	TOC reading error	CC519	3p	Delete	1999.05.26.	
23	794 TOC reading error	CC517	33p	22p	1999.07.20.	
24	High temperature operation NG	CC529, CC535, CC536, CC507, CC521, CC501, CC502, CC503, CC515	C cera 0.01u radial	C cera 0.01u axial	1999.10.24.	All
25	Aging test NG (some lot)	Rubber cushion	5phi Hardness : 25 Material : butyl	5phi (change shape)	2000.07.??.	Daewoo
26	Digital out data block sync error	DSP IC pin # 28	H : external clock	L : internal clock		

Option list for EM1

no	Locations	Daewoo	Samsung		Mechanism
1	Mechanism	DCC-01B	FR-3B		
2	R535, R536	120k	82k		
3	R532, R533	8.2k	10k		
4	R526	18k	12k		
5	R524, R527	5.6k	8.2k		
6	CC508	120p	390p		
7	DZ502	Z4.3V(or * Z3.9V)	Z3.9V	Please check original value	
8	R517	82k	56k		

DISASSEMBLY OF THE CD PLAYER BLOCK

1. 9CD3006900[C-01BD/A -DAEWOO]

The exchange of driving unit ass'y.

NOTE

Power must be supplied before the exchange.

During the exchange, prevention band for static electricity must be in wear.

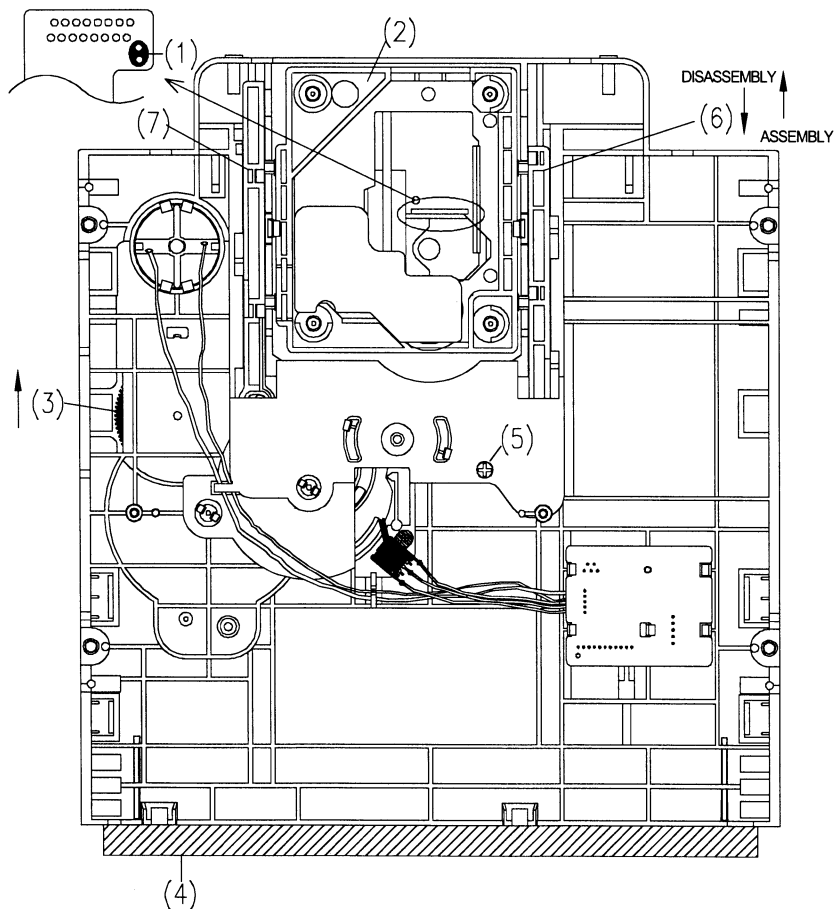
(To avoid the damage of pick-up for static electricity)

A. Separation of D/U ass'y.

1. Short terminal (1) on pick-up PCB after separating mecha from set.
2. Take down D/U ass'y (2) through turning relay gear (3) in CCW direction.
3. Release screw (5).
4. Push slider 'L' (6) in the direction of screw (5).
5. Separate D/U ass'y (2).

B. Assembly of D/U ass'y.

1. Put D/U ass'y between slide 'R' (7) and slider 'L' (6).
2. Push slider 'L' (6) in the opposite direction of screw (5).
3. Lock screw (5).
4. Open terminal (1) on pick-up PCB.
5. Put mecha on set.



DISASSEMBLY OF THE MAIN COMPONENTS

The exchange of tray ass'y.

NOTE

Power must not be supplied before the exchange.

During the exchange, prevention band for static electricity must be in wear.

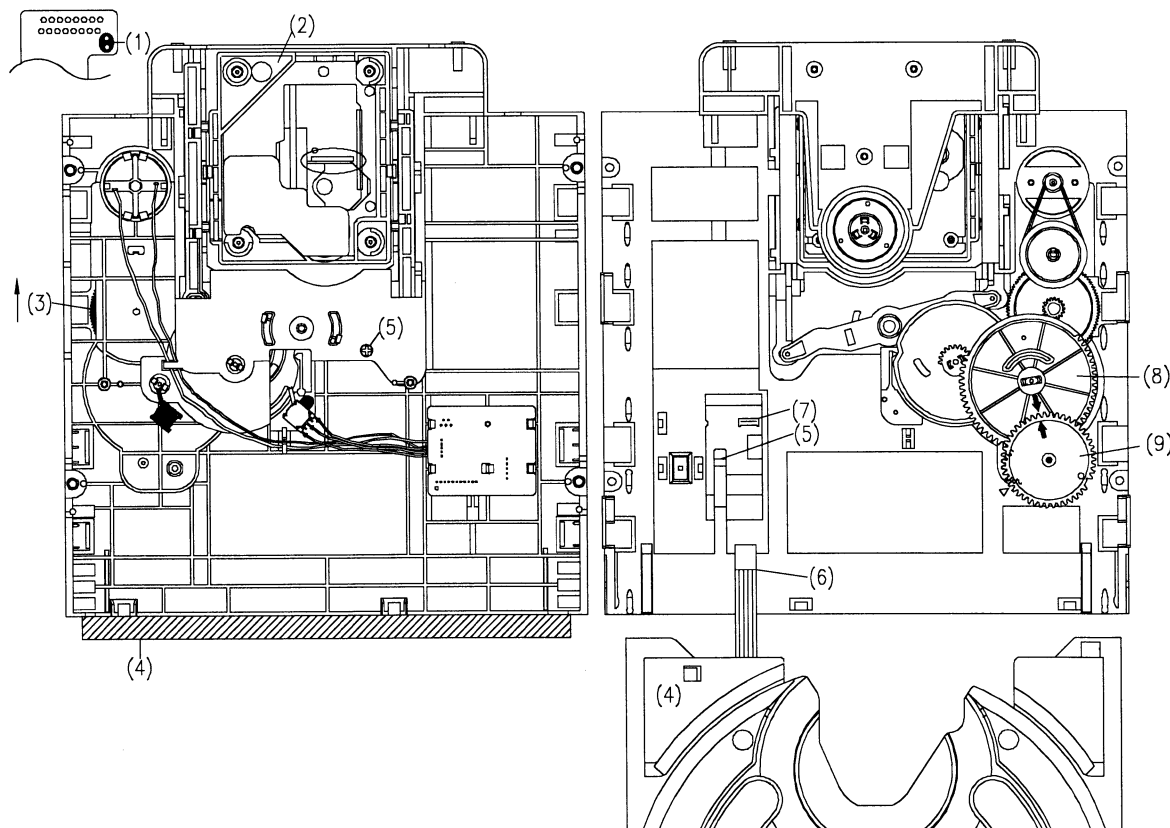
(To avoid the damage of pick-up for static electricity)

A. Separation of tray ass'y.

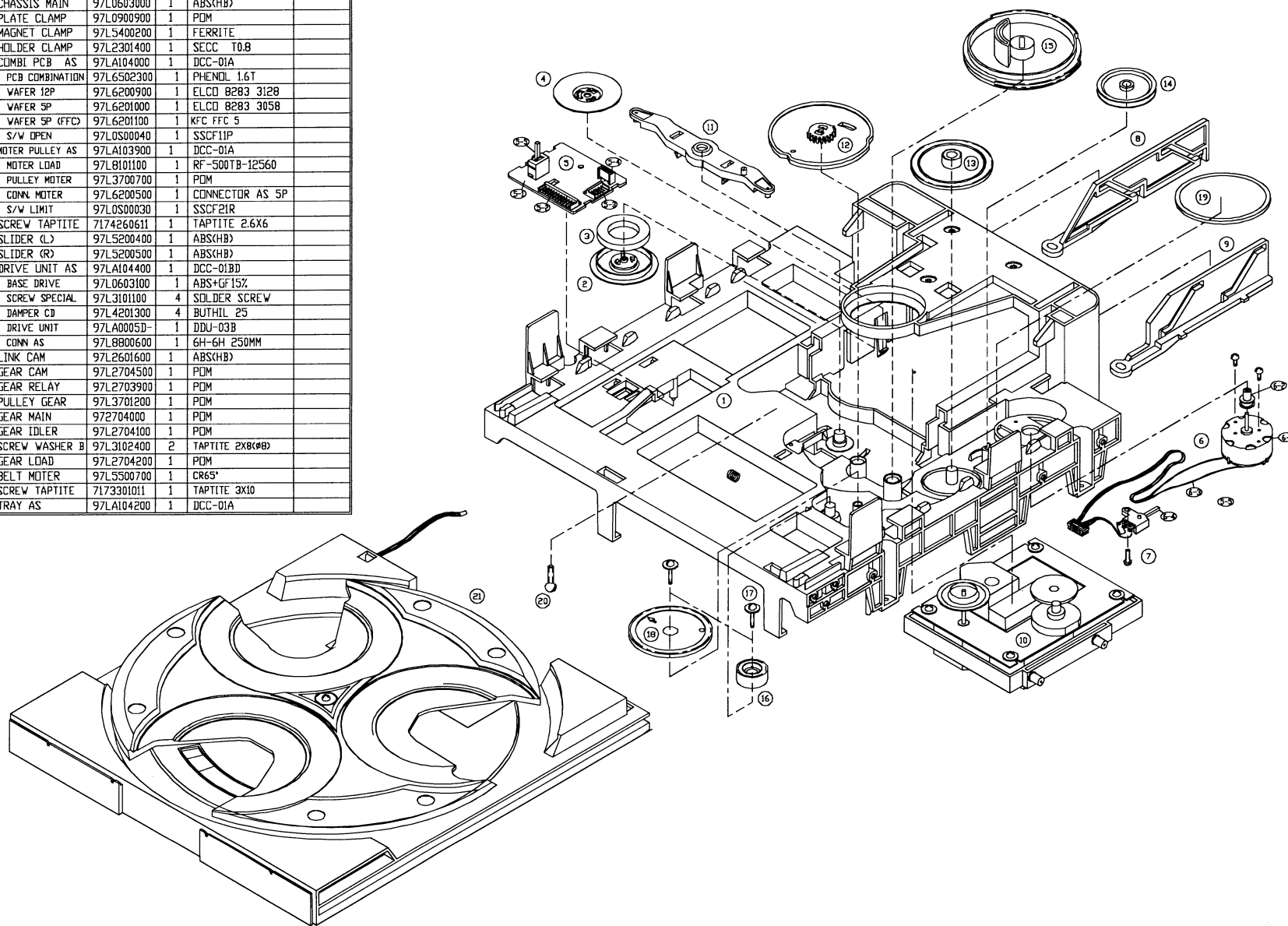
1. Short terminal (1) on pick-up PCB after separating mecha from set.
2. Open tray ass'y (4) through turning relay gear (3) in CW direction.
3. Pull tray ass'y until tray ass'y contact hook (5) of chassis/m.
4. Separate FCC (5P) (6) from water (7).
5. Pull tray ass'y throughly pressing hook (2).

B. Assembly of tray ass'y.

1. Turn loading gear (9) until arrow mark on main gear (8) meets that on loading gear (9).
2. Push tray ass'y (4) pressing hook (5) slightly.
(Pay attention to FCC(5P)(6) in flat, or touch noise may happen.)
3. Put FCC (5P) (6) into water (7).
4. Push tray ass'y (4) throughly.
5. Open terminal (1) on pick-up PCB.
6. Put mecha on set.

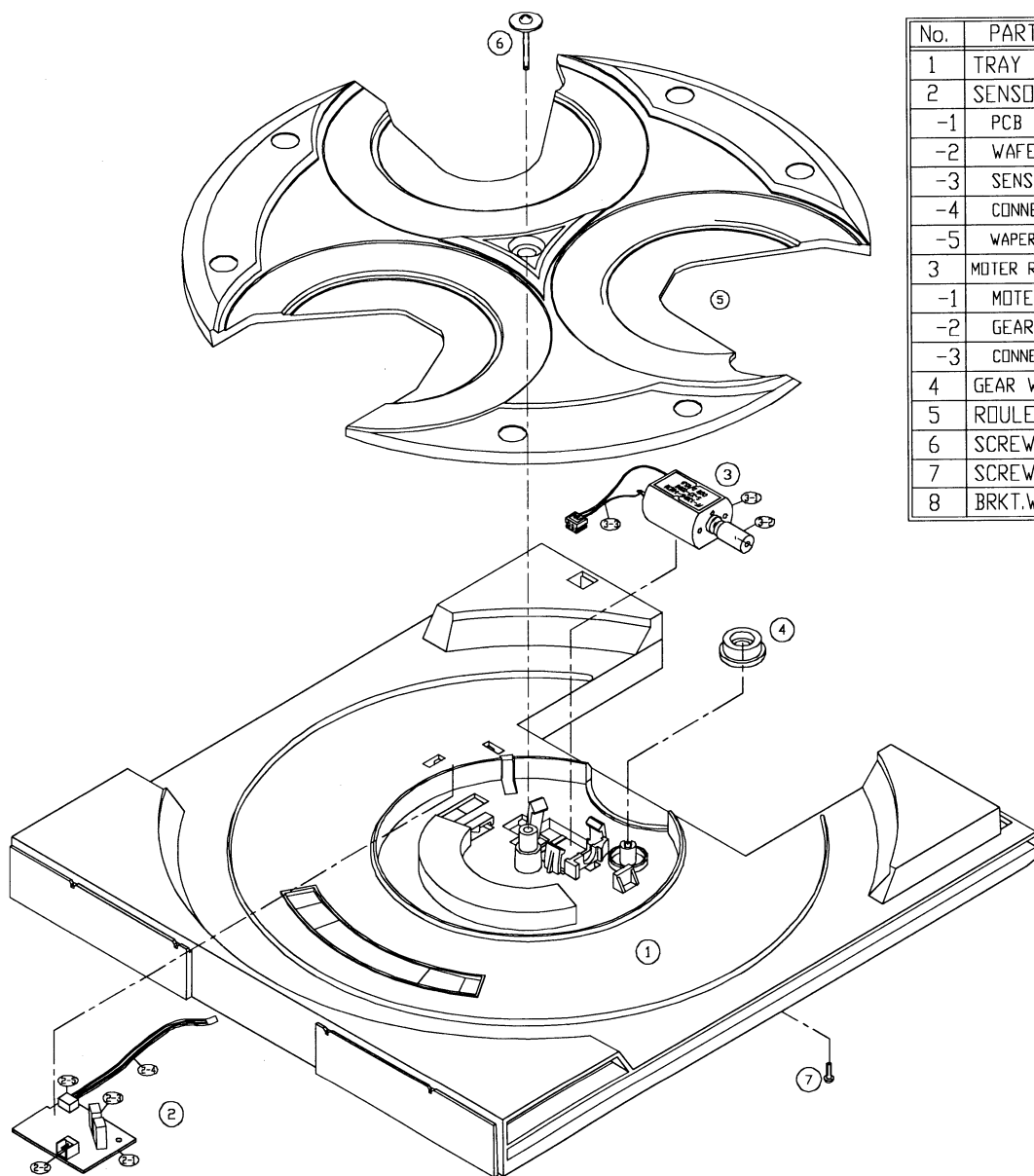


No.	PART NAME	PART No.	QUAN.	MATERIAL	REMARK
1	CHASSIS MAIN	97L0603000	1	ABS(HB)	
2	PLATE CLAMP	97L0900900	1	PDM	
3	MAGNET CLAMP	97L5400200	1	FERRITE	
4	HOLDER CLAMP	97L2301400	1	SECC T0.8	
5	COMBI PCB AS	97LA104000	1	DCC-01A	
-1	PCB COMBINATION	97L6502300	1	PHENOL 1.6T	
-2	WAFFER 12P	97L6200900	1	ELCO 8283 3128	
-3	WAFFER 5P	97L6201000	1	ELCO 8283 3058	
-4	WAFFER 5P (FFC)	97L6201100	1	KFC FFC 5	
-5	S/V OPEN	97L0S00040	1	SSCF11P	
6	MOTOR PULLEY AS	97LA103900	1	DCC-01A	
-1	MOTOR LOAD	97L8101100	1	RF-500TB-12560	
-2	PULLEY MOTOR	97L3700700	1	PDM	
-3	CONN. MOTOR	97L6200500	1	CONNECTOR AS 5P	
-4	S/V LIMIT	97L0S00030	1	SSCF21R	
7	SCREW TAPTITE	7174260611	1	TAPTITE 2.6X6	
8	SLIDER (L)	97L5200400	1	ABS(HB)	
9	SLIDER (R)	97L5200500	1	ABS(HB)	
10	DRIVE UNIT AS	97LA104400	1	DCC-01BD	
-1	BASE DRIVE	97L0603100	1	ABS+GF15%	
-2	SCREW SPECIAL	97L3101100	4	SOLDER SCREW	
-3	DAMPER CD	97L4201300	4	BUTHIL 25	
-4	DRIVE UNIT	97LA0005D-	1	DDU-03B	
-5	CONN AS	97L8800600	1	6H-6H 250MM	
11	LINK CAM	97L2601600	1	ABS(HB)	
12	GEAR CAM	97L2704500	1	PDM	
13	GEAR RELAY	97L2703900	1	PDM	
14	PULLEY GEAR	97L3701200	1	PDM	
15	GEAR MAIN	97L2704000	1	PDM	
16	GEAR IDLER	97L2704100	1	PDM	
17	SCREW WASHER B	97L3102400	2	TAPTITE 2X8(#8)	
18	GEAR LOAD	97L2704200	1	PDM	
19	BELT MOTOR	97L5500700	1	CR65	
20	SCREW TAPTITE	7173301011	1	TAPTITE 3X10	
21	TRAY AS	97LA104200	1	DCC-01A	



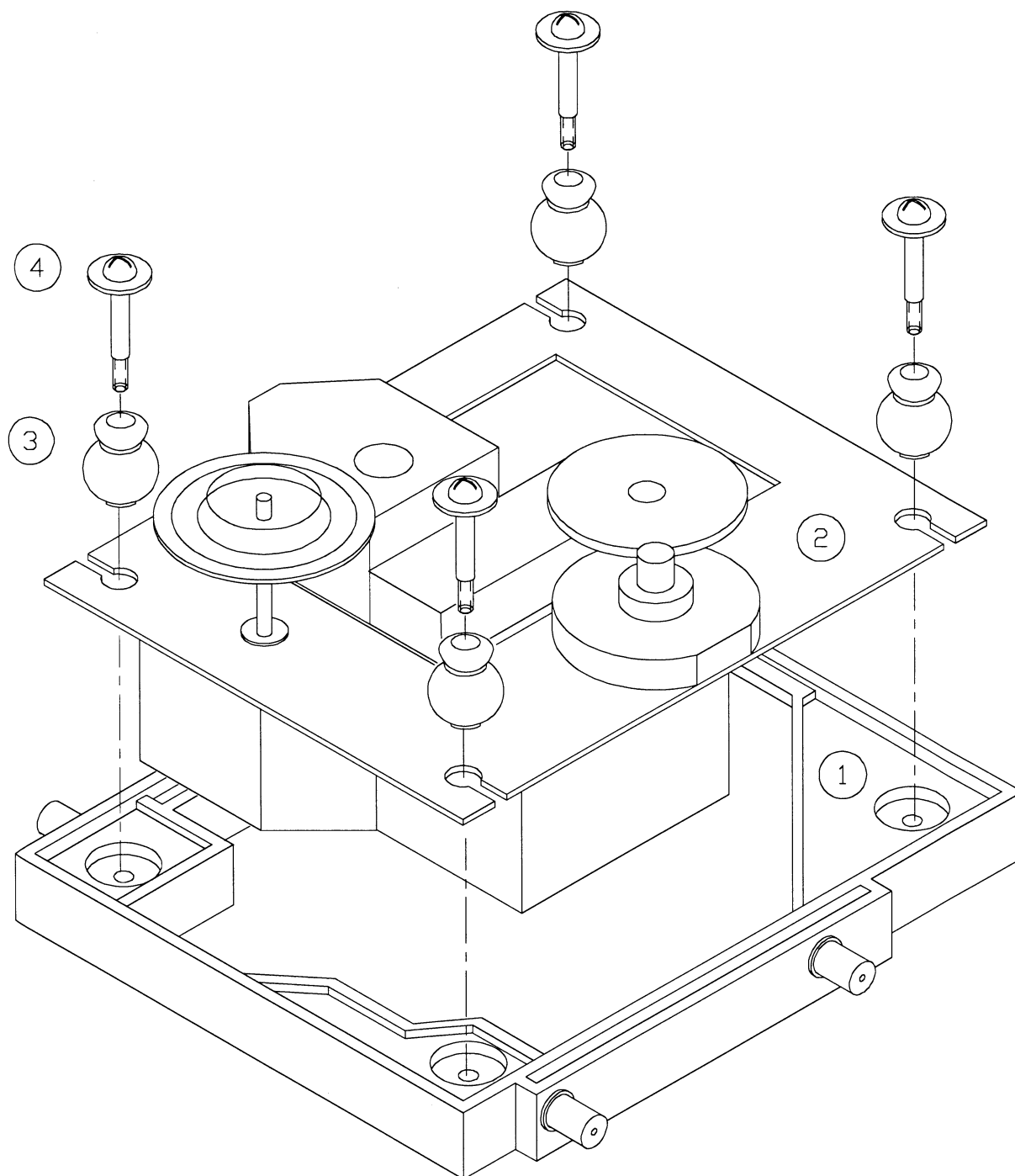
DISASSEMBLY OF THE MAIN COMPONENTS

DISASSEMBLY OF THE MAIN COMPONENTS



No.	PART NAME	PART No.	QUAN.	MATERIAL	REMARK
1	TRAY ROULETTE	97L0902700	1	ABS(HB)	
2	SENSOR PCB AS	97LA204300	1	DCC-01A	
-1	PCB SENSOR	97L6502200	1	PHENDL 1.2T	
-2	WAFER, 2P	97L6201200	1	ELCO 8203 3028	
-3	SENSOR S/W	97L0S00010	1	SG-23FI	
-4	CONNECTOR SENSOR	97L6200800	1	FFC 5P	
-5	WAPER 5P ANGLE(FFC)	97L6201300	1	FFC CON 5P ANGLE	
3	MOTOR ROULETTE AS	97LA204200	1	DCC-01A	
-1	MOTOR ROULETTE	97L8101200	1	FF-130SH-14230	
-2	GEAR WORM	97L2704300	1	PDM	
-3	CONNECTOR MOTOR R	97L6200600	1	CONNECTOR AS 2P	
4	GEAR WHEEL WORM	97L2704400	1	KP-3355	
5	ROULETTE DISK	97L0902800	1	ABS(HB)	
6	SCREW WASHER A	97L3102300	1	TAPTITE 3X8(Ø10)	
7	SCREW TAPTITE	7174260611	1	TAPTITE 2.6X6	
8	BRKT.WORM GUIDE		1	TAPTITE 2.6X6	

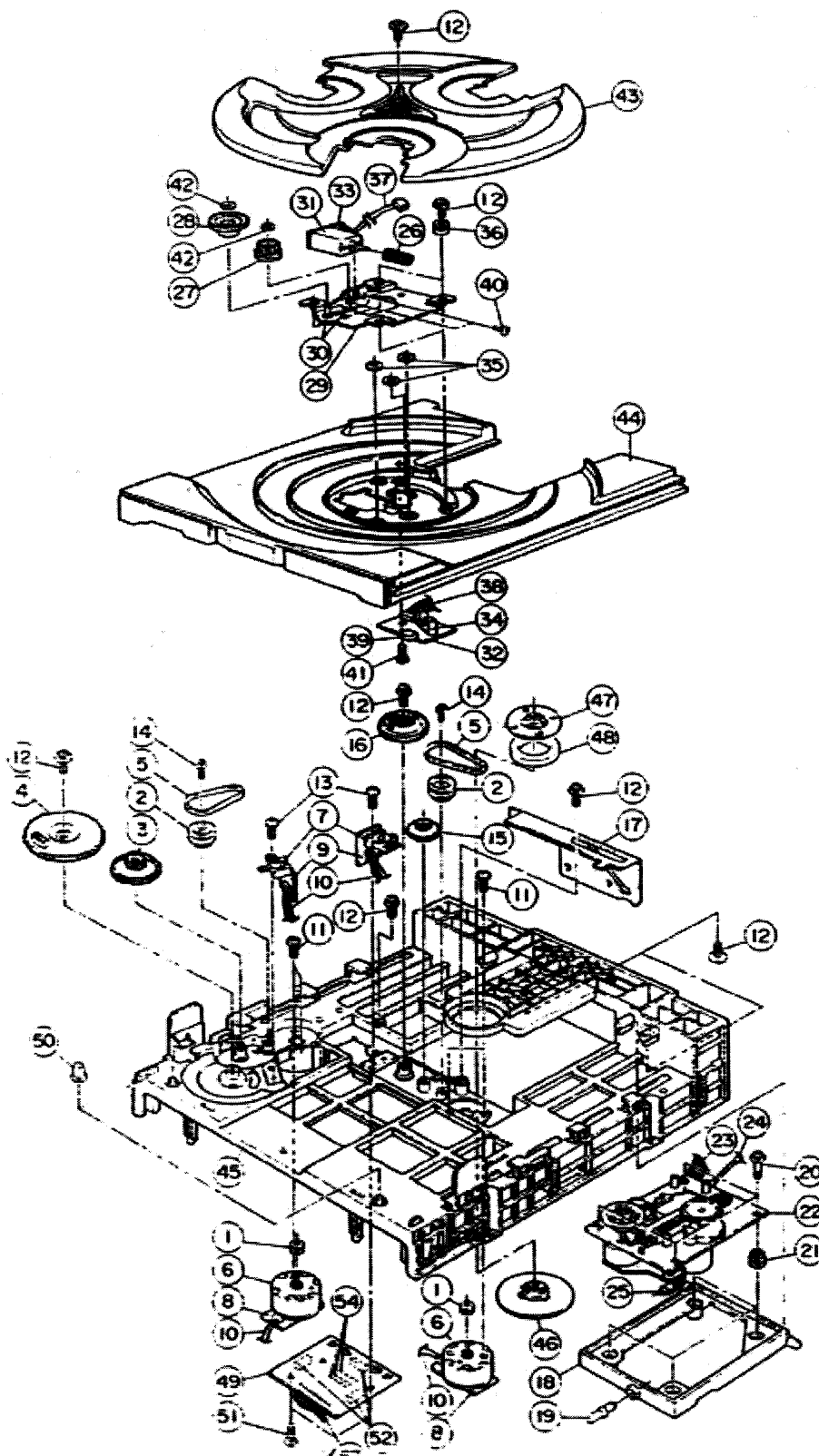
DISASSEMBLY OF THE MAIN COMPONENTS



No.	PART NAME	PART No.	QUAN.	MATERIAL	REMARK
1	BASE DRIVE	97L0603100	1	ABS+GF15%	
2	DRIVE UNIT		1		
3	RUBBER DANPER	97L4201500	4	BYTHIL 25	
4	SCREW SPECIAL	97L3101100	4	SOLDER SCREW	

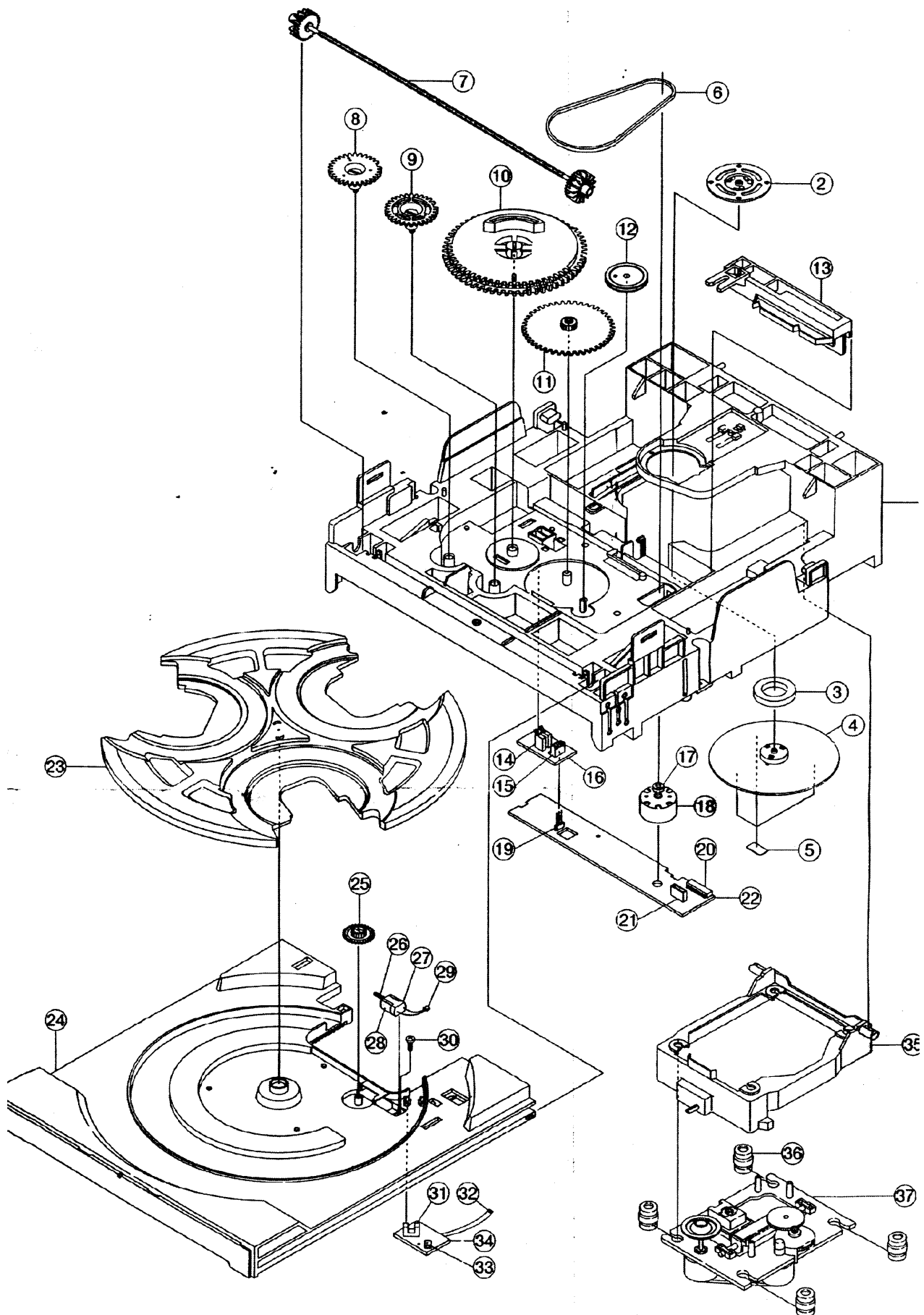
DISASSEMBLY OF THE CD PLAYER BLOCK

2. 9CD3006100[CMS-CR3] - SAMSUNG

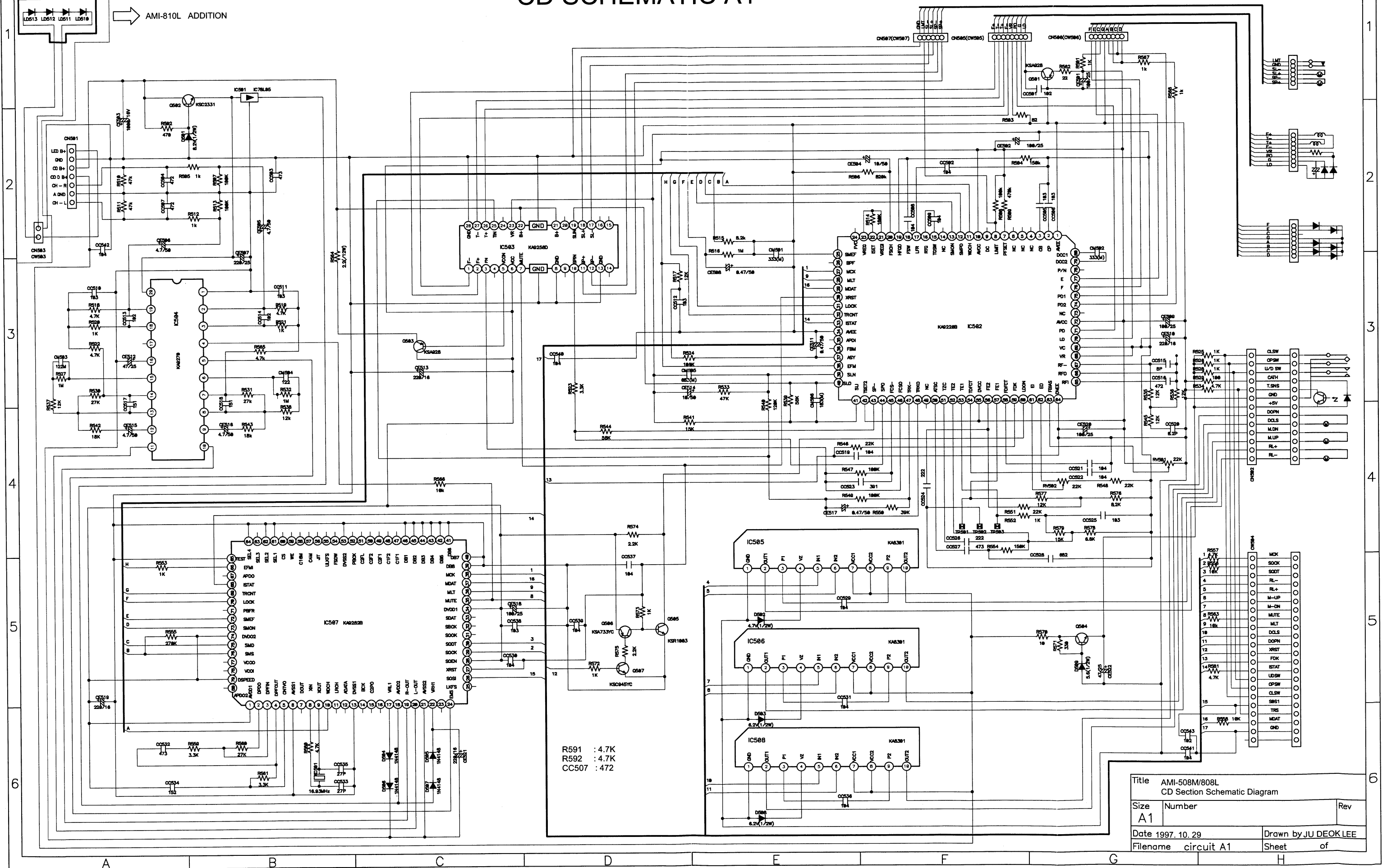


DISASSEMBLY OF THE CD PLAYER BLOCK

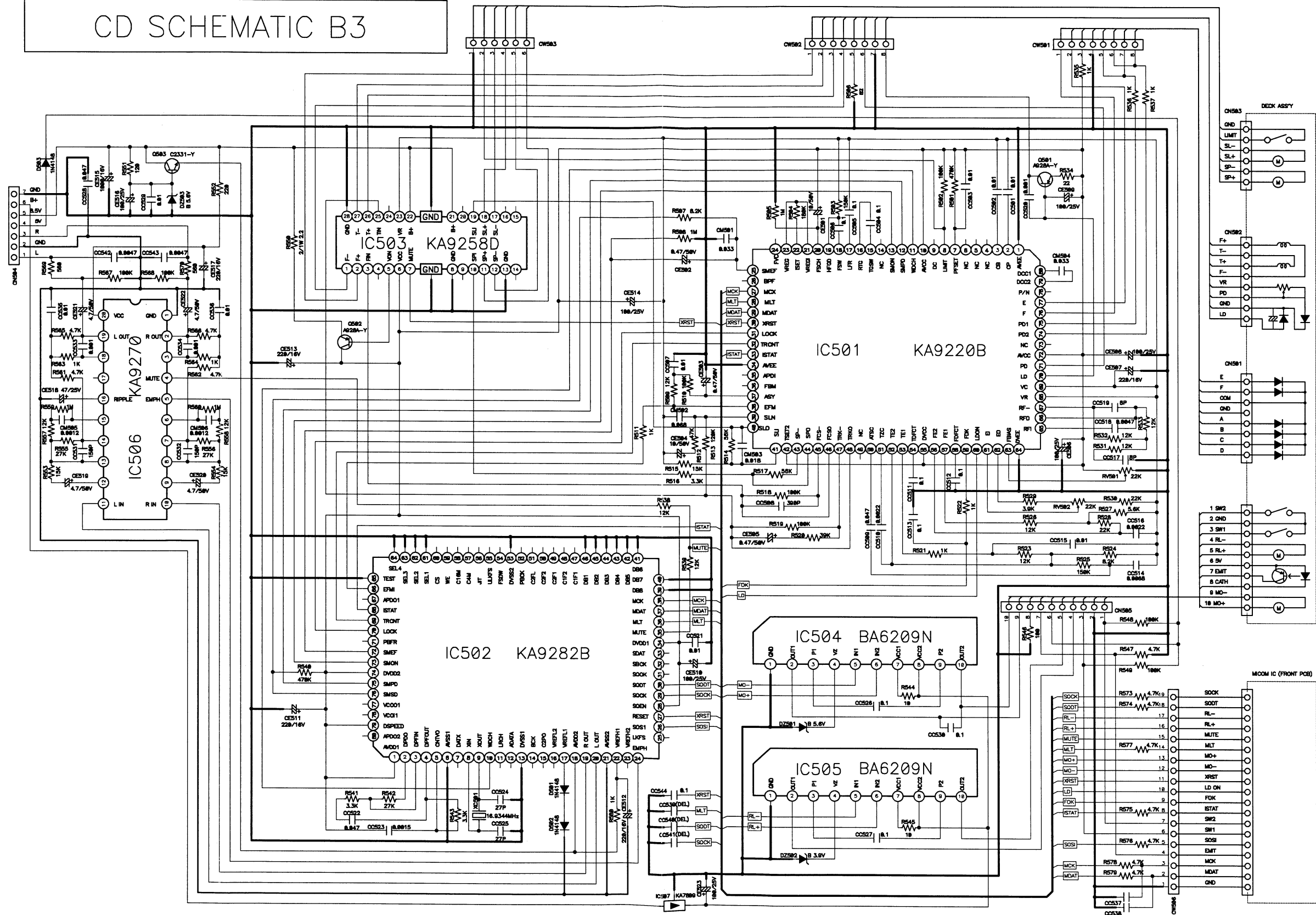
3. 9CD3006600[CMS-FR3]/9CD6007100[CMS-FR3B] - SAMSUNG



CD SCHEMATIC A1



CD SCHEMATIC B3

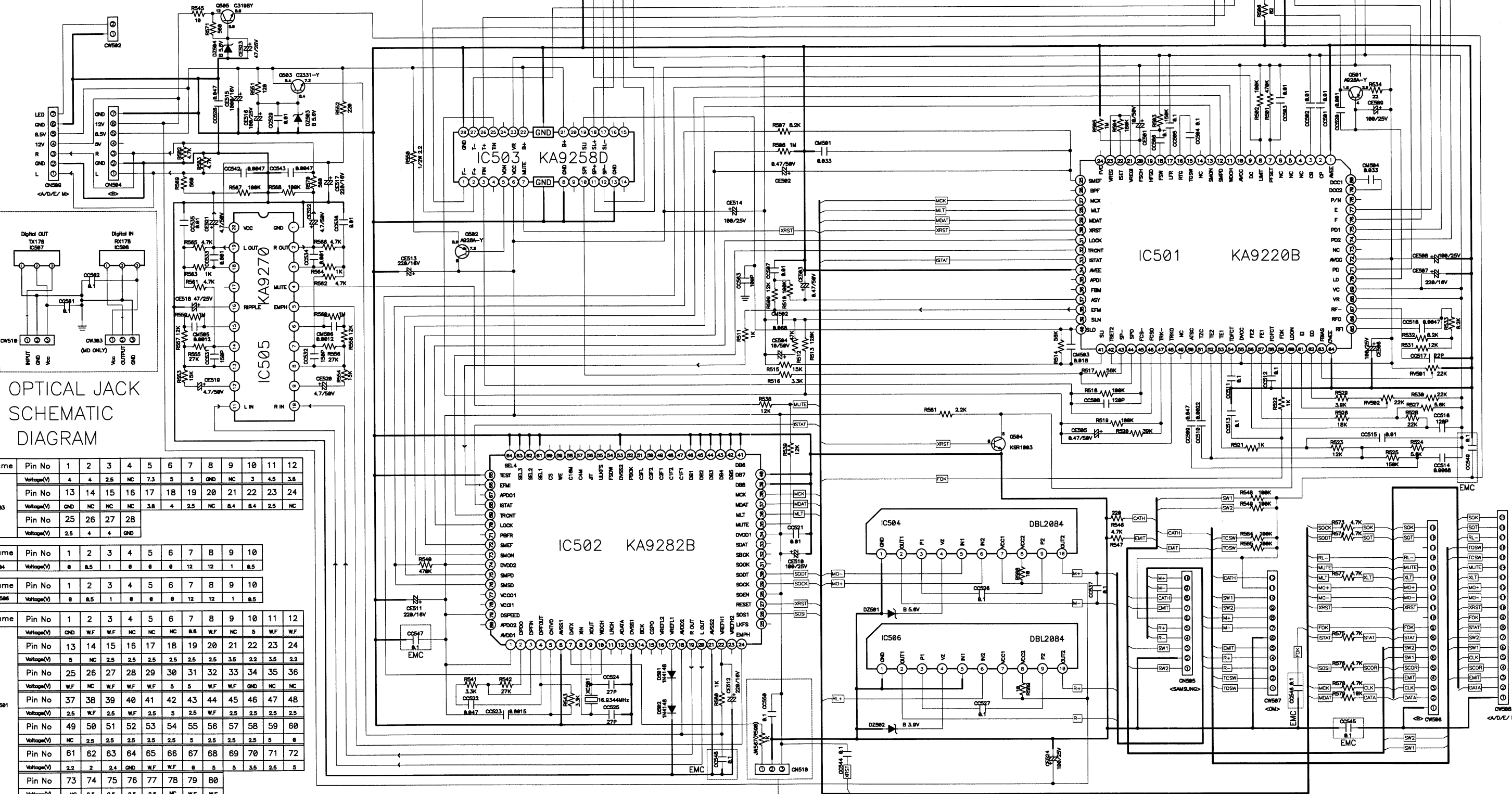


Title			AMI-308R
Size	Number	Rev	
A1	circuit B3	2	
Date	98.02.20	Drawn by	
Filename	drawn b3.sch	Sheet	1 of 1

CD SCHEMATIC EM1

* CD Mecha Difference Parts List

LOC	D.W(DCC-01B TYPE)	S.S(FR3-B TYPE)
R535/536	120K	82K
R532/533	8.2K	10K
R526	18K	12K
R524/527	5.6K	8.2K
CC508	120pF	390pF
DZ502	B4.3V	B3.9V



OPTICAL JACK SCHEMATIC DIAGRAM

Name	Pin No	1	2	3	4	5	6	7	8	9	10	11	12
IC503	Voltage(V)	4	4	2.5	NC	7.3	5	5	GND	NC	3	4.5	3.8
	Pin No	13	14	15	16	17	18	19	20	21	22	23	24
	Voltage(V)	GND	NC	NC	NC	3.8	4	2.5	NC	8.4	8.4	2.5	NC
	Pin No	25	26	27	28								
IC504	Voltage(V)	2.5	4	4	GND								
	Pin No	1	2	3	4	5	6	7	8	9	10		

Name	Pin No	1	2	3	4	5	6	7	8	9	10
IC504	Voltage(V)	0	0.5	1	0	0	0	12	12	1	0.5
	Pin No	1	2	3	4	5	6	7	8	9	10
IC506	Voltage(V)	0	0.5	1	0	0	0	12	12	1	0.5
	Pin No	1	2	3	4	5	6	7	8	9	10

Name	Pin No	1	2	3	4	5	6	7	8	9	10	11	12
IC501	Voltage(V)	GND	W.F	W.F	NC	NC	NC	0.8	W.F	NC	5	W.F	W.F
	Pin No	13	14	15	16	17	18	19	20	21	22	23	24
	Voltage(V)	5	NC	2.5	2.5	2.5	2.5	2.5	3.5	2.2	3.5	2.2	
	Pin No	25	26	27	28	29	30	31	32	33	34	35	36
IC501	Voltage(V)	W.F	NC	W.F	W.F	W.F	5	5	W.F	W.F	GND	NC	NC
	Pin No	37	38	39	40	41	42	43	44	45	46	47	48
	Voltage(V)	2.5	W.F	2.5	W.F	2.5	5	2.5	W.F	2.5	2.5	2.5	5
	Pin No	49	50	51	52	53	54	55	56	57	58	59	60
IC501	Voltage(V)	NC	2.5	2.5	2.5	2.5	5	2.5	2.5	2.5	5	5	0
	Pin No	61	62	63	64	65	66	67	68	69	70	71	72
	Voltage(V)	2.2	2	2.4	GND	W.F	W.F	0	5	5	3.5	2.5	5
	Pin No	73	74	75	76	77	78	79	80				
IC506	Voltage(V)	NC	2.5	2.5	2.5	2.5	NC	W.F					
	Pin No	1	2	3	4	5	6	7	8	9	10	11	12

Name	Pin No	1	2	3	4	5	6	7	8	9	10	11	12
IC506	Voltage(V)	GND	SINE	-	-	5	-	-	-	SINE	SINE	-	-
	Pin No	13	14	15	16	17	18	19	20				
	Voltage(V)	-	-	-	-	NC	-	SINE	5				

Name	Pin No	1	2	3	4	5	6	7	8	9	10	11	12
IC502	Voltage(V)	5	3	5	3	3	GND	-	W.F	W.F	W.F	NC	NC
	Pin No	13	14	15	16	17	18	19	20	21	22	23	24
	Voltage(V)	GND	NC	NC	NC	-	7.2	W.F	W.F	GND	4	NC	0
	Pin No	25	26	27	28	29	30	31	32	33	34	35	36
IC502	Voltage(V)	NC	W.F	5	5	W.F	W.F	NC	NC	NC	5	0	5
	Pin No	37	38	39	40	41	42	43	44	45	46	47	48
	Voltage(V)	W.F	W.F	GND	GND	GND	GND	GND	GND	NC	NC	NC	NC
	Pin No	49	50	51	52	53	54	55	56	57	58	59	60
IC502	Voltage(V)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Pin No	61	62	63	64	65	66	67	68	69	70	71	72
	Voltage(V)	GND	GND	GND	GND	GND	W.F	NC	W.F	W.F	NC	NC	W.F
	Pin No	73	74	75	76	77	78	79	80				
IC502	Voltage(V)	W.F	W.F	W.F	W.F	NC	NC	5	NC				
	Pin No	1	2	3	4	5	6	7	8	9	10	11	12

OPTION(OPTICAL JACK)

Name	Pin No	49	50	51	52	53	54	55	56	57	58	59	60
IC502	Voltage(V)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Pin No	61	62	63	64	65	66	67	68	69	70	71	72
	Voltage(V)	GND	GND	GND	GND	GND	W.F	NC	W.F	W.F	NC	NC	W.F
	Pin No	73	74	75	76	77	78	79	80				
IC502	Voltage(V)	W.F	W.F	W.F	W.F	NC	NC	5	NC				
	Pin No	1	2	3	4	5	6	7	8	9	10	11	12

Title	CD SCHEMATIC DIAGRAM
Size	A1
Number	Rev 1
Date	1999. 4. 12.
Filename	circuit EM1.sch
Sheet	of
Drawn by	JU DEOK